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ABSTRACT

In 1986, the Instructional Telecommunications Consortium was funded to collect data over a 3-year period on the utilization of telecourses as a way to offer college credit instruction to off-campus learners. First-year findings, based on course data submitted by 172 institutions, included the following: (1) 183 different telecourses were offered; (2) most telecourses had been used only once, but five were offered more than 100 times, representing a total number of reported uses of 1,764 for the 183 telecourses; (3) 71 institutions belonged to at least one regional or statewide consortia concerned with instructional telecommunications; (4) 81% of the responding colleges offered only two-year degrees; (5) 91% of the reported uses of telecourses were for courses offered for three credit hours, which, in almost all cases, was the same number of credits offered for on-campus courses; (6) the more viewing options students had, the greater the average enrollment per telecourse use; (7) 94% of the telecourses were offered at the freshman or sophomore level; (8) broadcast television was used by 85% of the institutions, video tape by 63%, and cable television by 56%; and (9) in 27% of the reported uses of telecourses, the institution produced a major instructional component (e.g., print, video, or computer software). Detailed survey responses are attached, along with survey instruments. (AJL)

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ED301295

TELECOURSE UTILIZATION SURVEY

FIRST ANNUAL REPORT: 1986-1987 ACADEMIC YEAR

A Research Project of:

Instructional Telecommunications Consortium

A Council Member of:

The American Association of Community and Junior Colleges

Funded by:

The Annenberg/CPB Project

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PREFACE

This report is a brief presentation of the data collected during the first year of a three year project. A similar report will be prepared at the end of the second year, with a final report issued in 1990.

In some ways the project is in its initial stages of development. Colleges may still begin participation in the project by submitting data inpus sheets. Instructions for preparing the data input sheets, codes, and the data input sheets may be found in Part II of this report.

Comments on this report and suggestions on analyses to be included in future ones are welcome, as well as inquiries on possible access to the database.

Please contact the project director for information and participation in the project.

EXECUTIVE SUMMARY

*One hundred and seventy two institutions submitted data at least once during the first year of the project.

*One hundred and eighty three different telecourses were reported having been offered.

*The total number of reported uses of the 183 telecourses was 1,764.

*Seventy one institutions belong to at least one regional or state wide consortia concerned with instructional telecommunications.

*Eighty-one percent of the reporting institutions offered only two year degrees.

*Most telecourses have been reported being used only once (124), but five were offered more than 100 times.

*In twenty-seven percent of the reported uses of telecourses the reporting institution produced a major instructional component - print, video or computer software.

*Ten different sources for the rights to use telecourses were reported with the most important being that the institution participated in the production of the telecourse.

*The number of television programs in the telecourses varied greatly, but most were 11, 13, 26 or 30 in number.

*Most reported uses of telecourses had between 13 and 15 hours of video (81%).

*Ninety one percent of the reported uses of telecourses were for courses with three credit hours.

*In 98% of the cases the telecourse had the same number of credit hours as its on-campus equivalent.

*Most institutions (89%) reported no difference in the general acceptance or identification of telecourse credit as compared to on-campus credit.

*Broadcast television was used by 85% of the institutions, video tape 63% and cable television 56%.

*In 54% of the reported uses of telecourses broadcast television was identified as the most important viewing method.

*The more viewing options students had the greater the average enrollment per telecourse use.

*Most telecourses (94%) were offered at the freshman or sophomore level.

INTRODUCTION

HISTORY

During the summer of 1986 a grant was awarded by The Annenberg/CPB Project to the Instructional Telecommunications Consortium, an affiliate of the American Association of Community and Junior Colleges. The grant funds data collection and research on the utilization of telecourses for college credit instruction for distant learners. Only those telecourses offered in such a way so as to reach off-campus students are included.

A popular definition of a telecourse was made in 1977 by Tom Gripp and is still valid today with only slight modification:

> [A telecourse is an] integrated learning system that employs television and various print materials. This system is specifically designed to involve a variety of learning strategies to forge a complete education unit available to the student in the convenience of his own home. [It] is not a correspondence course with pictures; nor is it a televised lecture with supplementary readings. It is an examination and presentation of a body of knowledge and information through the use of sight, sound, color, movement, and print in a manner designed to stimulate, clarify, and quantify. A telecourse is designed to take maximum advantage of the strengths of each component to lead the student through a "success-oriented" experience.1

The only modification in the definition to make it contemporary is due to the development over the past decade of personal computers. An increasing number of telecourses are being produced which incorporate student activities for microcomputers.

The project is designed to collect data for at least three years. This is necessary in order to develop a longitudinal database and to collect data from a large variety of postsecondary institutions. The goal is to reach participation of over two hundred institutions.

Data was first collected for the fall 1986 semester. Only members of the ITC were requested to participate at that time in order to evaluate the effectiveness of the questionnaire and data collection procedures. Input from these colleges resulted in refinements in the explanations for completing the data input sheets, revised data input sheets, and additional responses and codes.

There was only one major change in the nature of the project as from originally conceived. It was determined that data for courses offered only by live televised instruction should not be

1. (Tom Gripp, "Telecourses Have Designs on You," THE Journal: Technological Horizons in Education 4(1977): pp. 18-19.

collected. Although the instructional uses of these telecommunications technologies are important and will be used by many additional colleges within the next few years, it was determined that the questionnaire was not appropriate for live televised instruction as well for telecourses. For similar, reasons, it was also decided not to include audio either live or recorded and audio/graphic based courses.

A revised set of instructions, codes and data input sheets was distributed during the spring 1987 semester. The response codes are revised every few months as needed. See Appendix A for the January, 1988 version of the instructions, data input sheets, and codes.

LEVEL OF PARTICIPATION

The project is approaching its goal of at least two hundred participating institutions. Over 180 institutions have participated at least once as of January, 1988. Institutions may join the project at any time as long as they are willing to continue participating until the summer 1989 semester.

DATA VALIDITY

All data is reviewed by the project director before being entered into the database. This is done to assign new codes when necessary, return those which are incomplete, and to get a "feel" for the nature of the responses and their accuracy. The project director contacts institutions to clarify questionable responses.

It must be kept in mind that this is not a scientific sample of colleges and universities in the United States. However, with a sufficiently large number of participating institutions it should be possible to make important observations about the offering of telecourses by postsecondary institutions.

One possible problem with the data is that there may be disproportionally more two year institutions participating than upper level institutions. Data from other sources indicate that the actual distribution of institutions using telecourses may be closer to fifty percent for two year institutions. The initial predominance of two year institutions was a result of the role of the Instructional Telecommunications Consortium in supporting the project. Unfortunately, there is no comprehensive list of institutions using telecourses.

In preparing this report over 400 pages of listings and tables were generated. During its analysis several cases of invalid data were uncovered. This resulted in either data for specific fields in a record being corrected or deletion of the record. When the latter occurred, it was because the reported course did not meet the guidelines for the project. The most common cases were that it was either not truly a telecourse or it was not offered for college credit.

There are some slight variations in the contents of the database used in preparing this report because some records were corrected during the printing of tables and listings. For example, the total number of reported uses of telecourses is either 1764 or 1769. Thus, totals for any field (question) may vary slightly in different parts of the report. However, there should be no discernible impact on the analysis depending upon which version of the database was used.

USES OF THE DATABASE

The research project is designed to provide information to The Annenberg/CPB Project. However, the database can also be used by other institutions and individuals for a wide variety of purposes. For example, if an institution is considering the adoption of a telecourse it could obtain a list of others already offering it to see how it is being used. In a similar manner, the database could be used to see how institutions are using certain delivery systems, or the sharing of telecourses initially produced by colleges for their own use. These lists of institutions will be drawn only from those which have agreed to be identified for such purposes

Telecourse producers will find the data valuable in determining what telecourses have already been produced, how often they are being used, and enrollment trends. It may help identify institutions and consortia which may be willing to participate in the production of telecourses.

The database may be a valuable resource for graduate students. It could also be the basis of articles.

Although there are several constraints on direct access to the database, these should not affect its usefulness as a research database. The primary constraint is that individual institutions will not be identifiable unless agreement is obtained in advance from them.

PRESENTATION OF THE FINDINGS

A summary and discussion of the data makes up the remainder of the report. There is a discussion of the data for each item in the data input sheets. It might be helpful for readers not familiar with the project to turn to Appendix A to review the questionnaire and data input sheets.

No statistical analyses have been made of the data for this report. However, for the final report the database will be converted for analysis by SPSS software.

One final comment on reading the report is necessary. There are several ways in which telecourses and institutions are referred to in tables - - percent or number of telecourses and institutions reported at least once in the database, and the percent of telecourse uses. The first means that the numbers are based on either the 183 different telecourses reported at least once or the 172 institutions having submitted data for at least one semester. Uses refers to the 1764 reported uses of the 183 different telecourses. This is the number of records in the dBASE file.

REVISIONS IN MAY, 1988 PRINTING

This printing was made in August, 1988. Several additions and revisions have been made to the May, 1988 printing. The most notable are:

*Added to Table G.1 is the total number of times each telecourse was reported having been used in the 1986-1987 academic year and its average enrollment per use.

*A clarification has been made of the instructions for providing data for item R (Telecommunications Systems Used.)

FINDINGS

A. PARTICIPATING INSTITUTIONS

The number of participating institutions is still increasing. Listed below are the 184 institutions which have submitted data by October 1, 1987. Additional reports have been received since then for the spring and summer 1987 semesters, but they are not included in the database used for this report.

TABLE A.1

PARTICIPATING INSTITUTIONS

INSTITUTION	CITY	STATE
ALLAN HANCOCK COLLEGE	SANTA MARIA	CA
AMARILLO COLLEGE	AMARILLO	TX
ANNE ARUNDEL COMMUNITY COLLEGE	ARNOLD	MD
ARIZONIA STATE UNIVERSITY	TEMPE	AZ
AREA VTAE DISTRICT #4	MADISON	WI
ASNUNTUCK COMMUNITY COLLEGE	ENFIELD	CT
AUSTIN COMMUNITY COLLEGE	AUSTIN	TX
BAKERSFIELD COLLEGE	BAKERSFIELD	CA
BARSTOW COLLEGE	BARSTOW	CA
BELLEVILLE AREA COLLEGE	BELLEVILLE	IL
BOISE STATE UNIVERSITY	BOISE	ID
BOWLING GREEN STATE UNIV.	HURON	OH
BREVARD COMMUNITY COLLEGE	COCOA	FL
BRIGHAM YOUNG UNIVERSTIY	PROVO	UT
BROWARD COMMUNITY COLLEGE	FT.LAUDERDALE	FL
BUTLER COUNTY COMMUNITY COLLEGE	EL DORADO	KS
CAMERON UNIVERSITY	LAWTON	OK
CARL SANDBURG COLLEGE	GALESBURG	IL
CATAWBA VALLEY TECHNICAL COLLEGE	HICKORY	NC
CATONSVILLE COMMUNITY COLLEGE	CATONSVILLE	MD
CENTRAL FLORDIA COMMUNITY COLLEGE	OCALA	FL
CENTRAL MICHIGAN UNIVERSITY	MT.PLEASANT	MI
CENTRAL PIEDMONT COMMUNITY COLLEGE	CHARLOTTE	NC
CERRITOS COLLEGE	NORWALK	CA
CERRO COSO COMMUNITY COLLEGE	RIDGECREST	CA
CHEMEKETA COMMUNITY COLLEGE	SALEM	OR
CHICAGO CITY-WIDE COLLEGE	CHICAGO	IL
CHIPOLA JUNIOR COLLEGE	MARIANNA	FL
CHIPPEWA VALLEY TECHNICAL COLLEGE	EAU CLARIE	WI
CITRUS COLLEGE	GLENDORA	CA
CLARK COLLEGE	VANCOUVER	WA
CLARK COUNTY COMMUNITY COLLEGE	N. LAS VEGAS	NV
COASTLINE COMMUNITY COLLEGE	COSTA MESA	CA
COLLEGE OF DUPAGE	GLEN ELLYN	IL
COLLEGE OF LAKE COUNTY	GRAYSLAKE	IL
COLLEGE OF THE CANYONS	VALENCIA	CA
COLORADO STATE UNIVERSITY	FORT COLLINS	CO
COMMUNITY COLLEGE OF RHODE ISLAND	LINCOLN	RI

COMPTON COMMUNITY COLLEGE	COMPTON	CA
CRAFTON HILLS COLLEGE	YUCAIPA	CA
CUYAMCA COLLEGE	EL CAJON	CA
CYPRESS COLLEGE	CYPRESS	CA
DALLAS COUNTY COMMITY COLLEGE DISTRICT	DALLAS	TX
DAVIDSON COUNTY COMMUNITY COLLEGE	LEXINGTON	NC
DURHAM TECHNICAL COMMUNITY COLLEGE	DURHAM	NC
DUTCHESS COMMUNITY COLLEGE	POUGHKEEPSIE	NY
DYERSBURG STATE COMM. COLLEGE	DYERSBURG	TN
EAST CENTRAL COLLEGE	UNION	MO
EL CAMINO COLLEGE	TORRANCE	CA
EL PASO COMMUNITY COLLEGE	EL PASO	TX
ELGIN COMMUNITY COLLEGE	ELGIN	IL
ELON COLLEGE	ELON	NC
ENTERPRISE STATE JUNIOR COLLEGE	ENTERPRISE	AL
ESSEX COMMUNITY COLLEGE	BALTIMORE	MD
FLAMING RAINBOW UNIVERSITY	STILWELL	OK
FLORIDA COMMUNITY COL. OF JACKSONVILLE	JACKSONVILLE	FL
FORT SCOTT COMMUNITY COLLEGE	FORT SCOTT	KS
FOX VALLEY VTAE DISTRICT	APPLETON	WI
FRESNO CITY COLLEGE	FRESON	CA
FULLERTON COLLEGE	FULLERTON	CA
GATEWAY VTAE DISTRICT	KENOSHA	WI
GLENDALE COMMUNITY COLLEGE	GLENDALE	CA
GLENOAKS COMMUNITY COLLEGE	CENTERVILLE	MI
GLENVILLE STATE COLLEGE	GLENVILLE	WV
GLOUCHESTER COMMUNITY COLLEGE	SEWALL	NJ
GMI ENGIN. & MNGMNT. INSTITUTE	FLINT	MI
GOVERNORS STATE UNIVERSITY	UNIVERSITY PARK	IL
GRAND RAPIDS JUNIOR COLLEGE	GRAND RAPIDS	MI
HIGHLAND COMMUNITY COLLEGE	FREEPORT	IL
HILLSBOROUGH COMMUNITY COLLEGE	PLANT CITY	FL
HOUSTON COMMUNITY COLLEGE	HOUSTON	TX
HOWARD COMMUNITY COLLEGE	COLUMBIA	MD
ILLINOIS CENTRAL COLLEGE	EAST PEORIA	IL
ILLINOIS STATE UNIVERSITY	NORMAL	IL
ILLINOIS VALLEY COMMUNITY COLLEGE	OGLESBY	IL
INDIANA UNIVERSITY OF PENNSYLVANIA	INDIANA	PA
IOWA STATE UNIVERSITY	AIMS	IA
JAMESTOWN COMMUNITY COLLEGE	JAMESTOWN	NY
JEFFERSON COLLEGE	HILLSBORO	MO
JOHN R. LOGAN COLLEGE	CARTERVILLE	IL
JOHN WOOD COMMUNITY COLLEGE	QUINCY	IL
KASKASKIA COLLEGE	CENTRALIA	IL
KENT STATE UNIVERSITY/STARK COUNTY	NORTH CANTON	OH
KIRKWOOD COMMUNITY COLLEGE	CEDAR RAPIDS	IA
KISHWAUKEE COLLEGE	MALTA	IL
LAKESHORE VTAE DISTRICT	CLEVELAND	WI
LAKE-SUMTER COMMUNITY COLLEGE	LEESBURG	FL
LANE COMMUNITY COLLEGE	EUGENE	OR
LEWIS & CLARK COMMUNITY COLLEGE	GODFREY	IL
LINCOLN LAND COMMUNITY COLLEGE	SPRINGFIELD	IL
LINN-BENTON COMMUNITY COLLEGE	ALBANY	OR
LONG BEACH CITY COLLEGE	LONG BEACH	CA
LOS ANGELES VALLEY COLLEGE	VAN NUYS	CA

LOUISANA STATE UNIV/BATON ROUGE	BATON ROUGE	LA
MARYGROVE COLLEGE	DETROIT	MI
MCHENRY COUNTY COLLEGE	CRYSTAL LAKE	IL
MERIDAN JUNIOR COLLEGE	MERIDAN	MS
MIAMI-DADE COMMUNITY COLLEGE	MIAMI	FL
MID-STATE VTAE DISTRICT	WISCONSIN RAPIDS	WI
MILES COMMUNITY COLLEGE	MILES CITY	MN
MILWAUKEE AREA TECHNICAL COLLEGE	MILWAUKEE	WI
MIRACOSTA COLLEGE	OCEANSIDE	CA
MISS. GULF COAST JR COLL./GAUTIER	JACKSON	MS
MONROE COMMUNITY COLLEGE	ROCHESTER	NY
MOORPARK COLLEGE	MOORPARK	CA
MORAINE PARK VTAE DISTRICT	FOND DU LAC	WI
MORAINE VALLEY COMMUNITY COLLEGE	PALOS HILLS	IL
MOREHEAD STATE UNIVERSITY	MOREHEAD	KY
MORTON COLLEGE	CICERO	IL
MOUNT HOOD COMMUNITY COLLEGE	GRESHAM	OR
MT. SAN ANTONIO COLLEGE	WALNUT	CA
NKU UNIVERSITY COLLEGE	COVINGTON	KY
NAPA COLLEGE	NAPA	CA
NORTH CENTRAL TECHNICAL COLLEGE	WASAU	WI
NORTH IOWA AREA COMMUNITY COLLEGE	MASON CITY	IA
NORTH SHORE COMMUNITY COLLEGE	BEVERLY	MA
NORTHEAST WIS. VTAE DISTRICT	GREENBAY	WI
NORTHERN VIRGINIA COMMUNITY COLLEGE	ANNADALE	VA
OAKLAND COMMUNITY COLLEGE	BLOOMFIELD HILLS	MI
OAKTON COMMUNITY COLLEGE	DES PLAINS	IL
OHIO STATE UNIVERSITY	COLUMBUS	OH
OKLAHOMA STATE UNIVERSITY	STILLWATER	OK
OUR LADY OF HOLY CROSS COLLEGE	NEW ORLEANS	LA
OXNARD COLLEGE	OXNARD	CA
PALOMAR COLLEGE	SAN MARCOS	CA
PASADENA CITY COLLGE	PASADENA	CA
PENSACOLA JUNIOR COLLEGE	PENSACOLA	FL
PERU STATE COLLEGE	PERU	NE
PRAIRIE STATE COLLEGE	CHICAGO HEIGHTS	IL
PROVIDENCE COLLEGE	PROVIDENCE	RI
PURDUE UNIVERSITY/CALUMET	HAMMOND	IN
RANCHO SANTIAGO COLLEGE	SANTA ANA	CA
RAND LAKE COLLEGE	INA	IL
RICHLAND COMMUNITY COLLEGE	DECATUR	IL
RIO SALADO COMMUNITY COLLEGE	PHOENIX	AZ
RIVERSIDE CITY COLLEGE	RIVERSIDE	CA
ROANOKE-CHOWAN TECHNICAL COLLEGE	AHOSKIE	NC
ROCHESTER COMMUNITY COLLEGE	ROCHESTER	MN
ROCHESTER INSTITUTE OF TECHNOLOGY	ROCHESTER	NY
ROSE STATE COLLEGE	MIDWEST CITY	OK
SADDLEBACK COLLEGE	MISSION VIEJO	CA
SAINT PETERSBURG JUNIOR COLEGE	SAINT PETERSBURG	FL
SAN BERNARDINO VALLEY COLLEGE	SAN BERNARDINO	CA
SAN DIEGO CITY COLLEGE	SAN DIEGO	CA
SINCLAIR COMMUNITY COLLEGE	DAYTON	OH
SOMERSET COUNTY COLLEGE	SOMERVILLE	NJ
SOUTHERN ARKANSAS UNIV/TECHNICAL	EAST CAMDEN	AR
SOUTHWESTERN COLLEGE	CHULA VISTA	CA

ST. LOUIS COMMUNITY COLLEGE	ST. LOUIS	MO
TARRANT COUNTY JUNIOR COLLEGE	FT. WORTH	TX
THORNTON COMMUNITY COLLEGE	SOUTH HOLLAND	IL
TREASURE VALLEY COMMUNITY COLLEGE	ONTARIO	OR
TRITON COLLEGE	RIVER GROVE	IL
TRUCKEE MEADOWS COMMUNITY COLLEGE	RENO	NV
TULSA JUNIOR COLLEGE	TULSA	OK
TYLER JUNIOR COLLEGE	TYLER	TX
UMPQUA COMMUNITY COLLEGE	ROSEBURG	OR
UNION COLLEGE/KY	BARBOURVILLE	KY
UNION COUNTY COLLEGE	CRANFORD	NJ
UNIVERSITY OF ALABAMA	BIRMINGHAM	AL
UNIVERSITY OF ALASKA/FAIRBANKS	FAIRBANKS	AK
UNIVERSITY OF LOUISVILLE	LOUISVILLE	KY
UNIVERSITY OF MARYLAND/OPEN UNIV.	COLLEGE PARK	MD
UNIVERSITY OF NORTH CAROLINA	GREENSBORO	NC
UNIVERSTIY OF NORTH CAROLINA	CHAPEL HILL	NC
UNIVERSITY OF WISCONSIN/SUPERIOR	SUPERIOR	WI
VALENCIA COMMUNITY COLLEGE	ORLANDO	FL
VENTURA COLLEGE	VENTURA	CA
VICTOR VALLEY COMMUNITY COLLEGE	VICTORVILLE	CA
VTAE DISTRICT ONE	EAU CLAIRE	WI
WESTERN ILLINOIS UNIVERSITY	MACOMB	IL
WESTERN OKLAHOMA STATE COLLEGE	ALTUS	OK
WESTERN WASHINGTON UNIVERSITY	BELLINHGAM	WA
WEST VIRGINIA INST. OF TECH.	MONTGOMERY	WV
WICHITA STATE UNIVERSITY	WICHITA	KS
WILKES COMMUNITY COLLEGE	WILKESBORO	NC
WILLIAM RAINEY HARPER COLLEGE	PALATINE	IL
WISCONSIN INDIANHEAD VTAE DISTRICT	SHELL LAKE	WI
WOUBONSEE COMMUNITY COLLEGE	SUGAR GROVE	IL
WRIGHT STATE UNIVERSITY	DAYTON	OH
XAVIER UNIVERSITY OF LOUISIANA	NEW ORLEANS	LA
YAKIMA VALLEY COMMUNITY COLLEGE	YAKIMA	WA
YORK COLLEGE OF PENNSYLVANIA	YORK	PA
YUBA COLLEGE	MARYSVILLE	CA

B. SEMESTER

Data was first obtained for the fall 1986 semester. Institutions are requested to submit data for each semester a telecourse is offered including summer sessions. Summer semesters are particularly important. Although a small number of colleges offer telecourses during the summer, some of them have large enrollments. The experiences of these few institutions are encouraging others to explore the benefits and feasibility of offering telecourses during the summer.

Table B.1 summarizes some of the basic data by semester.

TABLE B.1

TELECOURSE USE AND ENROLLMENTS BY SEMESTER

	Fall 1986	Spring 1987	Summer 1987
Number of Institutions	63	134	57
Telecourse Uses	548	914	255
Number of Enrollments	28,571	42,712	12,761
Avg. # of Telecourses Per Institution	8.7	6.8	4.5
Avg. Enrollment Per Telecourse Use	52	47	50
Avg. Enrollment Per Institution	454	319	224

The decline in the average enrollment and number of telecourses used per institution from the fall to the spring semester results from a change in the composition of institutions participating in the survey. During the fall most of the largest users of telecourses in the country were in the database. However, those joining in the spring tended to be those with smaller programs.

The summer had the lowest number of participating institutions - - 43% of the reporting institutions using telecourses in the spring semester also offered telecourses in the summer. On the average they also offered fewer telecourses per institution. However, average enrollments were essentially unchanged.

It is interesting to note that even though there was a change in the make-up of participating institutions during the year, there was consistency in the average number of enrollments per telecourse throughout the year.

C. YEAR

This entry is used to determine the calendar year. It is used with the field Semester to determine the academic semester.

D. NUMBER OF CONSORTIA

This question was included to measure the importance of consortia in the offering of telecourses. There is an increasing number of postsecondary consortia located throughout the U.S. They are either state or regionally based. Regional ones can be quite large and have members from several states (e.g., NILRC - Northern Illinois Learning Resource Cooperative) while others have members from within a region of a state (e.g., Southern California Consortium). New consortia are still being formed, and existing ones are adding new members.

A recent experience in Texas demonstrates that consortia can be important to the offering of telecourses and the use of instructional telecommunications in general. A little over a year ago, a consortium was formed to serve colleges in the Northern part of the state that were in a PBS station's broadcast area. However, the needs and interests of these institutions were similar to those throughout the state. Because of this, it has grown to 23 members state-wide and changed its name to the Texas Consortium for Educational Telecommunications. Although it has thus far only limited its formal activities to licensing telecourses, discussions at its biannual meetings indicate a number of additional activities may be undertaken. This trend toward increasingly important roles for consortia is consistent with the findings of the nationwide Higher Education Utilization Study (HEUS) conducted in 1985 by the Corporation For Public Broadcasting and the National Center For Education Statistics.

The sponsoring organizations of consortia vary. Most consortia are independent legal entities, although their administrative offices are sometimes located on a college campus. Others are managed by PBS stations (particularly when there is a state-wide PBS network). Several are part of a state higher education office. All are involved in supporting the offering of telecourses for their members. Some only license telecourses, while others also either buy into their production or produce telecourses themselves.

Table D.1 summarizes the number of consortia concerned with instructional telecommunications belonged to by each institution. The average is 1.2 memberships per institution.

TABLE D.1

CONSORTIA MEMBERSHIPS PER INSTITUTION

Consortia	Percent of Institutions
0	29
1	35
2	30
3	5
4	1

Two-thirds of the participating institutions belong to at least one instructional telecommunications consortium. It is also worthwhile to examine the relationships among the average number of telecourses, enrollments per telecourse, and the number of consortia memberships. Table D.2 shows these data.

TABLE D.2

CONSORTIA MEMBERSHIPS AND TELECOURSE UTILIZATION

Consortia Memberships	Avg. Number Telecourses	Average Enrollment
0	6.0	38
1	9.6	36
2	12.1	56
3	16.2	86
4	20.0	36

There are two clear patterns - - the number of telecourses offered by an institution and their average enrollment increase as the number of memberships in consortia increases. The decrease in the average enrollments for those belonging to four consortia may result from the additional telecourses being offered for courses which are less likely to have either large on-campus or distant learner enrollments. The telecourses having the largest potential enrollments are likely to be offered first.

TABLE D.3

REPORTED CONSORTIUM MEMBERSHIPS

Arkansas College Consortium
Bay Area Community College TV Consortium
Central Educational Network
Eastern Educational Consortium
Educational Teleconsortium of Michigan
Florida Community College TV Consortium
Higher Education Telecommunications Association of Oklahoma
Instructional Telecommunications Consortium/AACJC
KAPSET (Kansas Association for Post Secondary Ed. Tv.)
KYCHE Telecommunications Consortium
Louisiana Educational Consortium
Maryland College of the Air
Nebraska Education Telecommunications Consortium of Higher Ed.
North Carolina Consortium for Instructional Telecommunications
Northern California Telecommunications Consortium
Northern Illinois Learning Resources Cooperative
Ohio Post Secondary Telecommunications Council
Oregon Community College Television Consortium
Southern California Consortium for Com. Col. TV
Texas consortium for Educational Telecommunications
Washington State Telecommunications Consortium (Puget Sound)
West Virginia Higher Education Instructional TV
Wisconsin Board of Vocational, Technical, and Adult Education

E. MOST IMPORTANT CONSORTIUM

Twenty-two consortia have been reported as being an institution's most important one for instructional telecommunications activities. However, the data for this question may change during the next few years. Some areas of the country are still not covered by a regional or state-wide consortia. It is likely that most of the country will become part of the service area of such a consortium within the next few years as the importance of instructional telecommunications increases: the delivery of video for telecourses; live televised instruction; satellite networks; and, microcomputer based instruction.

For those institutions not included in a service area, either a new consortium may form in their area or they may be included in the expanded service area of an existing one. National organizations may become more important. Several already exist such as the Instructional Telecommunications Consortium and the National ITFS Association. An increasing number of institutions may belong to both regional/state and national organizations.

F. HIGHEST DEGREE OFFERED

Two year institutions may be over-represented in the database. Only 19 percent of the participating institutions award bachelors or higher degrees. Additional efforts are being made to increase the participation of upper level institutions. In general, upper level institutions appear to participate less in organizations and multi-institutional projects involving telecourses.

The average number of enrollments per telecourse varies some by degree level of the institutions.

TABLE F.1

DEGREE LEVEL AND TELECOURSE USE

Highest Degree Level	Percent of Institutions	Avg. Enrollment Per Telecourse
Two Year Academic only	9%	49
Two Year Academic & Voc./Tech.	66	50
Two Year Voc./Tech only	6	21
Bachelors/Master Degrees	11	34
Ph.D.	8	46

Degree level is also related to participation in consortia. Many of the participants in this project were initially contacted to participate through a regional consortium. That participating two year institutions are more likely to belong to a consortium is reflected in Table F.2. Academic two year institutions are much more likely to belong to one or more telecommunications related consortia than are vocational/technical institutions and those offering graduate degrees.

TABLE F.2

DEGREE LEVEL AND CONSORTIA MEMBERSHIPS

	Consortia Memberships				
Highest Degree Level	0	1	2	3	4
Two Year Academic only	25%	44%	25%	6%	0%
Two Year Academic & Voc./Tech.	22	33	40	3	2
Two Year Voc./Tech only	64	9	18	9	0
Bachelors/Master Degrees	40	45	15	0	0
Ph.D.	43	57	0	0	0

Note: A review of the data suggests that memberships may be under-reported for institutions in several states.

G. TELECOURSE NAME

Note that the data and discussion for this section was updated August, 1988. It includes additional data reported for the 1986-1987 academic year. The courses listed below and the number of times their use was reported is slightly different from that used elsewhere in the report. However, this revised list is presented because it accurately reflects the list of telecourses reported for the 1986-1987 academic year.

The table also contains additional information. The left hand columns list the total number of times the use of each telecourse was reported and its average enrollment per use.

One of the most important findings of the research project has been the discovery of the number of telecourses which were used during the 1986-1987 academic year. The following four pages list 181 telecourses. The most common usage was once by one institution during the academic year. Forty-four percent were reported only once during the first year of the project. On the other hand, The Business File was used 121 times.

It has revealed a number of commercial producers who might not normally be identified as telecourse producers. (See codes for item "G" in Appendix A.) More importantly, it shows that an increasing number of institutions are producing telecourses for their own use or in cooperation with other colleges. (This will be discussed in section H.)

TABLE G.1

REPORTED TELECOURSES

# Uses/Avg. Enr.	Telecourse Name	Producer/Distributor
4/ 18	A VOUS LA FRANCE	BBC/FILMS, INC
6/ 31	ACCOUNTING PRINCIPLES	KIRKWOOD COMMUNITY COL.
3/ 32	ADULT YEARS	INTERNATIONAL U. CON.
2/ 16	ADVANCES IN INSTRUCTION I	COLORADO STATE U.
1/ 1	ADVANCES IN INSTRUCTION II	COLORADO STATE U.
1/ 24	AGE OF ENLIGHTENMENT	INTERNATIONAL U. CON.
6/ 24	AFRICANS, THE	WETA (A/CPB)
1/ 56	AMERICA	MIAMI-DADE COM. COL.
63/ 76	AMERICA: THE SECOND CENTURY	DALLAS COUNTY C. C. D.
2/ 26	AMERICAN ADVENTURE	DALLAS COUNTY C. C. D.
10/255	AMERICAN GOVERNMENT I	DALLAS COUNTY C. C. D.
7/281	AMERICAN GOVERNMENT II	DALLAS COUNTY C. C. D.
55/ 61	AMERICAN GOVERNMENT SURVEY	DALLAS COUNTY C. C. D.
40/100	AMERICAN STORY BEG. TO 1877, THE	DALLAS COUNTY C. C. D.
6/ 29	AMERICAN SHORT STORY, THE	COAST COM. COL. DIST.
3/ 11	AN INVITATION TO FLY	SAN MATEO COLLEGE
1/ 22	APPLIED COMMUNICATIONS SKILLS	WFVTAE/MATC
1/ 35	APPLIED SKETCHING TECHNIQUES	COAST COM. COL. DIST.
20/ 71	ART OF BEING HUMAN, THE	MIAMI-DADE COM. COL.
9/ 41	ASCENT OF MAN, THE	MIAMI-DADE COM. COL.

1/ 46	ASTRONOMY	TIME-LIFE/FILMS INC.
3/ 5	BASIC AC CIRCUITS	WIS. FOUND. VOC./TECH.
2/ 32	BASIC DC CIRCUITS	WIS. FOUND. VOC./TECH.
1/ 21	BEGINNING PIANO: AN ADULT APPROACH	COAST COM. COL. DIST.
1/ 7	BEGINNING SPANISH I	FLORIDA C.C./JACKSON.
2/ 15	BEGINNING TYPING	ACCESS
1/ 37	BEGINNINGS: HANDICAPPED CHILDREN	MARYLAND ITV/MD STATE
2/ 6	BERNSTEIN CONDUCTS BEETHOVEN	
2/ 63	BEYOND WORDS	ARIZONA STATE U./KAET
2/ 77	BIOLOGY	WILKES COLLEGE
4/ 36	BRAIN, MIND AND BEHAVIOR	WNET (A/CPB)
2/ 20	BUSINESS COMMUNICATIONS	KET AND TIME/LIFE
1/ 20	BUSINESS COMMUNICATIONS	SINCLAIR COMMUNITY COL.
2/ 32	BUSINESS ENGLISH I	LANE COMMUNITY COLLEGE
119/ 39	BUSINESS FILE, THE	DALLAS CO. C. C. DIST.
1/ 24	BUSINESS LAW	SINCLAIR COMMUNITY COL.
3/ 43	BUSINESS LAW	MIAMI-DADE COM. COL.
3/ 15	BUSINESS LAW I AND II	GOVERNORS STATE U.
115/ 46	BUSINESS OF MANAGEMENT, THE	SOUTHERN CAL. CONS.
2/ 25	BUSINESS, INTRODUCTION TO	ACCESS AND EL. PUB.
2/ 22	BUSINESS OWNERSHIP ORIENTATION	SINCLAIR COMMUNITY COL.
1/ 11	CHANGING FAMILY, THE	CATONSVILLE COM. COL.
5/ 42	CHILD DEVELOPMENT	ACCESS AND EL. PUB.
2/ 9	CHINESE, THE	SCETV
3/ 17	CIVILIZATION	BBC
10/117	COMMUNICATING THROUGH LITERATURE	DALLAS CO. C. C. DIST.
1/ 39	COMMUNICATIONS SKILLS I	WFVTAE/MATC
3/ 61	COMMUNICATIONS SKILLS II	WFVTAE/MATC
1/ 27	COMPLEXITY, MANAGEMENT AND CHANGE	INTERNATIONAL U. CON.
1/ 13	CONFLICT AND SOCIETY	INTERNATIONAL U. CON.
4/ 38	CONGRESS: WE THE PEOPLE	WETA-ANNENBERG/CPB PRO.
8/ 30	CONSTITUTION: THAT DEL. BAL., THE	MEDIA & SOCIETY/COL. U (ANNENBERG/CPB PROJECT)
1/ 47	CONSUMER EDUCATION	ACCESS AND EL. PUB.
1/ 3	CONSUMER LAW	SINCLAIR COMMUNITY COL.
23/ 57	CONTEMPORARY HEALTH ISSUES	SOUTHERN. CAL. CONS.
3/ 46	COSMOS	KCET
3/ 14	DC-AC CIRCUITS	WFVTAE
1/ 51	DEALING IN DISCIPLINE	UNIVERSITY OF KENTUCKY
13/ 46	DESIGNING HOME INTERIORS	COAST COM. COL. DIST.
1/ 9	DEVELOPING IMAGE, THE	NORTHERN VIRGINIA CC
1/ 29	DRAMA: PLAY, PERFORMANCE, PERCETP.	MIAMI-DADE/BBC/B. O. U
3/ 31	EARTH EXPLORED, THE	BBC OPEN UNIV./KRMA-TV
1/ 58	EARTH & MAN	MARYLAND CENTER FOR PTV
21/ 63	EARTH SEA & SKY	DALLAS CO. C. C. DIST.
1/ 20	ECONOMICS I	CENTRAL PIEDMONT C. C.
2/ 28	ECONOMICS II	CENTRAL PIEDMONT C. C.
54/ 35	ECONOMICS U$A	ED. FILM CENTER (A/CPB) (ANNENBERG/CPB PROJECT)
2/ 39	EDUCATING THE EXCEPTIONAL CHILD	COLORADO STATE U.
1/ 21	EFFECTIVE COMMUNICATIONS SKILLS	WFVTAE/MATC
1/ 48	EXPLORING LANGUAGE	INTERNATIONAL U. CON.
7/ 23	EYES ON THE PRIZE	CIVIL RIGHTS PROJECT
58/ 38	FACES OF CULTURE	COAST COM. COL. DIST.
34/ 37	FAMILY PORTRAIT	SOUTHERN CA. CONS.

2/ 25	FAMILY VIOLENCE	SINCLAIR COMMUNITY COL.
1/ 34	FITNESS FOR LIVING	MERCER COUNTY COM. COL.
107/ 49	FOCUS ON SOCIETY	DALLAS CO. C. C. DIST.
4/ 60	FOOTSTEPS	U.S. DEPT OF EDUCATION
2/ 4	FREE TO CHOOSE	WQLN/PUBLIC COMMUN.
6/ 42	FROM SOCRATES TO SARTRE	MARYLAND PTV
3/ 43	FUNDAMENTAL CONCEPTS OF MATH	MAGNA SYSTEMS
1/ 25	FUNDAMENTALS OF WRITTEN ENGLISH	CHEMEKETA COM. COL.
2/ 18	GENERAL ECONOMICS	SINCLAIR COMMUNITY COL.
2/ 33	GENERAL PSYCHOLOGY I	SINCLAIR COMMUNITY COL.
2/ 39	GENERAL PSYCHOLOGY II	SINCLAIR COMMUNITY COL.
2/ 33	GENERAL SOCIOLOGY I	SINCLAIR COMMUNITY COL.
2/ 32	GENERAL SOCIOLOGY II	SINCLAIR COMMUNITY COL.
86/ 44	GROWING YEARS, THE	COAST COM. COL. DIST.
1/ 55	HEALTH CARE ORGANIZATION	GOVERNORS STATE U.
13/ 28	HERE'S TO YOUR HEALTH	DALLAS CO. C. C. DIST.
3/ 33	HERITAGE: CIVILIZATION & THE JEWS	WNET
1/ 9	HISTORY OF CHICAGO METRO. AREA	ACCESS
6/ 17	HOME GARDENER, THE	COAST COM. COL. DIST.
4/ 35	HOW TO START A SMALL BUSINESS	ADFC
39/ 51	HUMANITIES THROUGH THE ART	COAST/CITY COL. CHICAGO
10/ 92	IN OUR OWN IMAGE	DALLAS CO. C. C. DIST.
1/ 15	INTERACTION	MD ITV/MD. DEPT. OF ED
20/ 80	INTRODUCING BIOLOGY	COAST COM. COL. DIST.
1/ 40	INTRODUCTION TO AMERICAN GOVERNMENT	SINCLAIR COMMUNITY COL.
2/ 30	INTRODUCTION TO BUSINESS	SINCLAIR COMMUNITY COL.
1/ 26	INTRODUCTION TO BUSINESS	COLLEGE OF DUPAGE
2/ 30	INTRODUCTION TO COMPUTER CONCEPTS	SINCLAIR COMMUNITY COL.
2/ 27	INTRODUCTION TO MATHEMATICS	MARYLAND CENTER FOR PTV
1/ 27	INTRODUCTION TO MICROCOMPUTERS	ROCHESTER INS. OF TECH.
1/ 75	INTRODUCTION TO PHILOSOPHY	U. OF DELAWARE
2/ 17	JAPAN: THE LIVING TRADITION	UNIVERSITY MID-AMERICA
1/ 18	JOB SEARCH TECHNIQUES	CLARK COMMUNITY COLLEGE
2/ 24	JUVENILE DELINQUENCY	SINCLAIR COMMUNITY COL.
4/ 29	LIFE ON EARTH	BBC
2/ 34	LIVING WITH DYING AND DEATH	SINCLAIR COMMUNITY COL.
7/ 23	LONG SEARCH, THE	MIAMI-DADE COM. COL.
1/ 30	LOVE & PERSONAL GROWTH	SINCLAIR COMMUNITY COL.
1/ 64	MAKING IT COUNT	BOEING COMPUTER CO.
1/ 34	MAKING IT WORK	SO. CAROLINA ED. TV
2/ 43	MANAGING FOR CHANGE	INTERNATIONAL U CON.
47/ 38	MARKETING	COAST COM. COL. DIST.
2/ 28	MARKETING I	SINCLAIR COMMUNITY COL.
2/ 31	MARKETING II	SINCLAIR COMMUNITY COL.
5/ 25	MARKETING PERSPECTIVES	MILWAUKEE AREA TECH. C.
2/ 51	MARRIAGE AND THE FAMILY	U. OF WISCONSIN/WHA
8/ 31	MATHEMATICS FOR MODERN LIVING	MAGNA SYSTEMS, INC.
10/ 31	MECHANICAL UNIVERSE, THE	CIT (A/CPB)
3/ 19	MECHANICAL UNIVERSE & BEYOND, THE	CIT (A/CPB)
1/ 63	MEDICAL TERMINOLOGY I	LANE COMMUNITY COLLEGE
1/ 63	MEDICAL TERMINOLOGY II	LANE COMMUNITY COLLEGE
1/ 11	MIDDLE SCHOOL, THE	U. OF KENTUCKY
24/ 44	MONEY PUZZLE, THE	MIAMI-DADE COM. COL.
2/ 5	MULTICULTURAL AND SPECIAL POPULATIONS	COLORADO STATE U.
1/ 15	MUSIC APPRECIATION	VALENCIA COMMUNITY COL.

1/ 16	MUSIC THROUGH TIME	FILMS FOR HUMANITIES
1/ 19	MYTHOLOGY IN LITERATURE	SINCLAIR COMMUNITY COL.
1/ 33	NEEDLECRAFT	COAST COMM. COLLEGE
106/ 39	NEW LITERACY, THE	SO. CA. CON. (A/CPB)
55/ 45	OCEANUS:THE MARINE ENVIRONMENT	SO. CA. CONS.
2/ 17	OFFICE PROCEDURES	ACCESS
2/ 29	ON WARFARE	ACCESS
3/ 26	OUT OF THE FIERY FURNACE	OPUS FILMS/PENN. STATE
1/ 84	PEOPLE & ORGANIZATIONS	INTERNATIONAL U. CON.
33/ 36	PERSONAL FINANCE & MONEY MGT.	SO. CA. CON.
1/ 12	PERSONAL LAW	SINCLAIR COMMUNITY COL.
10/ 36	PHOTOGRAPHIC VISION	COAST COM. COL. DIST.
11/ 46	PLANET EARTH	WQED (A/CPB)
1/ 17	PREPARATORY MATHEMATICS	CATONSVILLE COM. COL.
15/ 82	PRINCIPLES OF ACCOUNTING	DCCCD/PENN STATE
2/ 27	PRINCIPLES OF ECONOMICS I	SINCLAIR COMMUNITY COL.
1/ 7	PRINCIPLES OF MARKETING	WESTERN ILLINOIS U.
2/ 3	PROBATION AND PAROLE	SINCLAIR COMMUNITY COL.
2/ 4	PROFIT, PRODUCTIVITY	SINCLAIR COMMUNITY COL.
4/ 37	PROGRAMMING FOR MICROCOMPUTERS	INDIANA UNIVERSITY
1/ 1	PROGRAMMING FOR THE GIFTED	U. OF WISCONSIN-EXT.
47/ 49	PROJECT UNIVERSE	COAST COM. COL. DIST.
5/ 20	PSYCHOLOGY OF HUMAN RELATIONS	MILWAUKEE AREA TECH. C.
1/ 9	REAL ESTATE PRINCIPLES	CATONSIVLLE COM. COL.
2/ 44	REAL ESTATE PRINCIPLES	COLLEGE OF SAN MATEO
1/ 11	RELATED SERVICES IN THE PUBLIC SCHOOLS	COLORADO STATE U.
1/ 27	RELIGIOUS QUEST	INTERNATIONAL U. CON.
3/ 20	SHAKESPEARE	BAY AREA TV CONSORTIUM
1/ 22	SHAKESPEARE HOUR	PBS
2/ 17	SOCIAL PROBLEMS	(SEVERAL SOURCES)
2/ 28	SOCIAL PROBLEMS	SINCLAIR COMMUNITY COL.
2/ 19	SOCIAL SCIENCE I	ACCESS
2/ 20	SOCIAL SCIENCE II	ACCESS
1/ 25	STARTING A BUSINESS:ENTREPREN.	MAGIC LANTERN
4/ 25	STORY OF ENGLISH, THE	MACCNEIL-LEHRER-GAN/BBC
2/ 37	STRESS MANAGEMENT	SINCLAIR COMMUNITY COL.
7/ 28	SURVIVAL (ELEMENTARY)SPANISH	MIAMI-DADE COM. COL.
2/ 75	SYSTEMS ORGANIZATION AND MANAGEMENT	INTERNATIONAL U. CON.
1/ 31	SYSTEMS PERFORMANCE	INTERNAITONAL U. CON.
1/ 19	TEACHING WRITING: A PROCESS APPROACH	MARYLAND ITV
3/ 48	TOPIC: MUSIC	NORTHERN VIRGINIA CC
3/ 67	U.S. HISTORY TO 1876	CATONSVILLE COM. COL.
1/ 26	UNDERSTANDING ADOLESCENCE	CENTRAL PIEDMONT C.C.
106/ 55	UNDERSTANDING HUMAN BEHAVIOR	COAST COM. COL. DIST.
2/ 29	VIETNAM: A TELEVISION HISTORY	WGBH
13/ 12	VOYAGE: CHALLENGE & CHANGE IN CAREER	BAY AREA TV CONSORTIUM
1/ 23	WAR	NAT. FIM BOARD CANADA
1/ 14	WHILE SOLDIERS FOUGHT	INTERNATIONAL U. CON.
1/ 29	WORLD OF CINEMA, THE	CHICAGO CIY-WIDE COL.
42/ 60	WRITE COURSE, THE	DALLAS CO. C. C. DIST.
1/ 77	WRITING FOR A REASON	
8/ 17	YOU AND THE LAW	COAST/SADDLEBACK/KOCE
2/ 36	ZARABANDA	BBC
49	Average for all telecourse uses	

Table G.lists the reported number of uses of each telecourse during the first year. For example, 82 have been used once while one telecourse has been used 121 times. It is expected that the number of telecourses reported having been used once will decrease each year. Many institutions use some telecourses once a year and most of the institutions included in the database had submitted data for only one semester.

There does not appear to be a clear pattern in the average enrollment per telecourse used and the total number of times it has been used. However, total uses less than seven may tend to have the lowest average enrollment while those used eight to 22 times the largest.

TABLE G.2

FREQUENCY OF USE FOR EACH TELECOURSE

Number of Times Used	Number of Telecourses	Average Enrollment Per Use
1	82	30
2	24	29
3	18	29
4	5	27
5	7	39
6	5	24
7	4	37
8	7	77
9	3	136
12	1	34
13	2	29
14	2	25
16	1	78
18	1	76
20	1	64
22	1	73
24	1	43
25	1	54
33	2	36
36	1	50
41	1	97
42	1	46
44	1	59
45	1	48
53	1	46
55	2	49
57	1	80
58	1	35
84	1	44
101	1	51
106	1	38
107	1	55
118	1	44
121	1	39
Over-all average per use:		48

The number of different telecourses used by each participating institution is listed in Table G.3. One-third used only one, two or three telecourses. It will be interesting to determine during the next two years if these institutions will offer the same telecourses each year, offer the same number but change the courses, or, add some telecourses.

It is clear that a small percentage of the institutions participating in this study offer most of the telecourses and generate the largest number of enrollments. One-third of the institutions offered more than ten different telecourses during the year.

It should be kept in mind that the data in Table G.3 are probably misleading. The number of reporting institutions increased from 63 in the fall 1986 semester to 134 for the spring 1987 semester. Institutions which offer different telecourses in the fall and spring semesters will be under-reported in terms of table G.3.

TABLE G.3

FREQUENCY OF USE OF DIFFERENT TELECOURSES BY INSTITUTIONS

Number of Telecourses	Number of Institutions	Percent of All Institutions
1	32	17%
2	19	10
3	11	6
4	9	5
5	7	4
6	13	7
7	14	8
8	9	5
9	9	5
10	8	4
11	2	1
12	5	3
13	5	3
14	6	3
15	2	1
16	6	3
17	3	2
18	4	2
19	0	0
20	1	1
21	2	1
22	1	1
23	0	0
24	0	0
25	1	1
26	1	1
27	1	1
*		
48	1	1

H. TELECOURSE PRODUCER

For 173 of the reported uses of telecourses the institution reported that it had either produced it itself or had joined in its production with others. This is 10% of the total reported uses of telecourses.

This under-reports acutal college participation in the production of telecourses because in several cases a consortium is reporting data for its members. The consortium obtained funds from its members to join in the production of the telecourse. However, the telecourse is reported on the institutional data input sheets as having been licensed from the consortium and produced by some other entity. It is possible that the reported participation in the production of telecourses is several times greater than what was actually reported.

The data also indicate that the average enrollment per use of a telecourse in which the institution participated was larger than when participation was absent.

TABLE H.1

INSTITUTIONAL PARTICIPATION IN THE PRODUCTION OF TELECOURSES

	# of Telecourses Used	Average Enrollment
Participated	173	78
Did Not Participate	1,596	45

I. USE PRINT MATERIALS RECOMMENDED BY PRODUCER

The data for this item clearly support the general rule that telecourses come with a recommended textbook and study guide and that colleges use them. Only in 54 of the reported uses of a telecourse did a college indicate that there was not a recommended textbook or study guide. When one was recommended it was almost always used by the college. In only 59 cases were neither the textbook nor study guide used.

This strengthens the argument that a key component for the adoption of a telecourse is the quality, acceptability and recognition of the textbook. Colleges seem to be unlikely to adopt a telecourse and then produce their own print materials.

TABLE I.1

USE OF PRINT MATERIALS

Print Materials	Number of Telecourse Uses	Percent of Tel. Used
No recommended texts	54	3%
Used recommended texts	1577	89
Used recommended textbook only	52	3
Used recommended study guide only	23	1
Used recommended reader	3	<.5
Did not use recommended materials	59	3

Table I.2 shows the relationship between the use of print materials and the degree level of the institution. Four year colleges and universities are more likely to offer telecourses without recommended print materials and not to use them when the telecourse comes with them. This may be due to faculty at these institutions being more likely to develop their own instructional materials and to have greater control over the selection of instructional materials.

TABLE I.2

USE OF PRINT MATERIALS BY DEGREE LEVEL OF INSTITUTION

Degree Level	Use of Text Materials					
	None Rec.	Textbook & S.G.	Textbook	Study Guide	Reader	Didn't Use
2 Yr. Academic	2%	96%	2%	0%	0%	0%
2 Yr. Acad.+V/T	2	91	3	1	0	3
2 Yr. V/T only	2	84	0	10	0	4
Bach./Masters	4	73	5	4	1	14
Ph.D.	23	57	13	3	0	3
N=	53	1,574	52	23	3	58

NOTES: The responses to this item may underestimate the number of cases where colleges do not use recommended materials. This is most likely to occur when data is provided by consortia for their members.

The total number of telecourse uses (records) in Tables I.1 and I.2 are slightly different. This is an example of the situation discussed in the Introduction where a later version of the database had three fewer records.

J. USE INSTRUCTIONAL MATERIALS PRODUCED BY INSTITUTION

The data for question I discussed previously indicate that colleges generally use the textbook and study guide recommended for a telecourse. However, the data for this question indicate that many colleges also produce supplemental instructional materials. For 19 percent of the telecourse uses the institution reported that it had produced some form of instructional material. This indicates that some institutions perceive the video programs, textbook, and study guide for a telecourse as core materials to be either supplemented as necessary. Twenty-seven percent of all participating institutions reported at least one telecourse for which it had produced some type of instructional material.

TABLE J.1

INSTRUCTIONAL MATERIALS PRODUCED BY INSTITUTION

Material Produced	Percent of Reported Telecourses	Average Enrollment	Percent of Institutions
Did not produce anything	81%	45	[illegible]
Textbook or study guide	4	53	12
Microcomputer software	<.5	302*	1
Video programs	1	28	4
Print and video	1	37	3
Other materials	14	65	15

Colleges and universities are becoming better able to produce instructional materials. Some are either adding video production studios or upgrading existing ones. Some are writing computer software for personal computers. Others are even beginning to produce videodiscs. It will be interesting to determine over the next two years if an increasing number of institutions produce supplemental materials for telecourses.

*This large average results from the data reported by a single institution.

K. LICENSED FROM

It has been reported that telecourses have been licensed from 56 different sources. However, this question has been subject to various interpretations by reporting institutions and consortia. The primary source of differing interpretations has been when consortia officers have completed the data input sheets for their members.

When a consortium licenses telecourses for its members, for example, from the Adult Learning Service (ALS), the consortium officer generally reports that the institutions licensed the telecourse from the consortium, not ALS. However, in other cases where colleges belong to consortia and submitted the data input sheets themselves, they have reported the ALS as the licensing agent even though it was obtained through their consortium. The net result has been to somewhat under-report the number of telecourses licensed through consortia which in turn licensed telecourses for its members.

Similar interpretations exist for those cases where the consortium bought into the production of a telecourse on behalf of its members. The consortium officer may report that the college licensed this telecourse from the consortium because the consortium bought into the production of the telecourse. However, colleges in the same consortium may report that it bought into the production of the telecourse because it contributed funds to the consortium for the consortium buy-in. In either case it is still possible to determine what institution produced the telecourse.

The ten most often cited sources of telecourse licenses are listed in Table K.1. It must be kept in mind, however, when reading the table that this does not indicate the producer of the telecourse. For example, both Dallas County Community College District and the Southern California Consortium are greatly underreported as distributors. This results because many, if not most times, their courses are licensed from other agencies, such as the Adult Learning Service, or colleges that participated in the funding of the production.

TABLE K.1

TEN MOST FREQUENT SOURCES OF TELECOURSE LICENSES

Organization	Percent of Total Telecourse Uses
Participated in production	22%
Adult Learning Service	15
Northern Illinois Learning Resources Coop.	15
Southern California Consortium	12
Coast Community College	5
Dallas County Community College District	4
Florida Community College TV Consortium	5
Higher Education Telecommunications Association of Oklahoma	3
Maryland College of the Air	3
Miami-Dade Community College	1

L. NUMBER OF PROGRAMS IN SERIES

Table L.1 provides data on the number of programs in a telecourse (not hours of video). The column "Percent of Telecourses" indicates the percent of the 183 telecourses having a given number of programs. The distribution is somewhat more diverse than might be expected. The primary range is from eight to 30 programs with one cluster from eight to 16 and the other 26 to 34.

Note that the percentages total 165, not 100. This results when a telecourse is reported with different total numbers of programs. There are several possible explanations for these differences. Some colleges produced supplemental video programs and added them to the telecourse. A telecourse could be used for either a single course or the programs could be divided and offered for two courses; e.g., Economics U$A. And, in several cases the hours of programming were reported instead of the number of programs. In these cases, the records will be corrected in future reports of the database.

The third column in Table L.1 lists the percent of the participating institutions which reported using a telecourse with the number of programs. Not surprisingly, the data reveals that most uses of telecourses had 26, 28 and 30 programs. This is the number which the most popular telecourses tend to have. However, many institutions apparently have no difficulty in offering telecourses with numbers of programs substantially different from these.

Related to these data is the number of hours of video programming in a telecourse. The number of hours is more revealing about the nature of telecourses than the number of programs. This is examined in the next section.

TABLE L.1

NUMBER OF PROGRAMS IN EACH TELECOURSE

Number of Programs	% of Reported Telecourses	% of Institutions Using This Number
4	1%	1%
5	1	1
6	2	5
7	2	4
8	7	5
9	5	6
10	5	5
11	15	2
12	2	3
13	10	16
14	9	10
15	7	6
16	3	3
17	2	3
18	1	1
19	1	1
20	11	9
21	1	1
22	2	2
23	1	1
24	6	4
25	2	2
26	17	72
28	7	51
29	1	1
30	34	67
31	1	1
32	1	7
35	1	1
36	1	3
37	1	1
40	1	1
43	1	1
45	1	1
52	1	1
64	1	1
Total Percentages:	165	299

M. HOURS OF PROGRAMMING IN SERIES

Table M.1 compares data among several questions with the number of hours of programming for each use of a telecourse. The first column lists the hours of programming for each reported use of a telecourse. The second column is the frequency in percentages of all reported uses of telecourses. For example, 24% of the 1769 uses of telecourses had 13 hours of video. It is not surprising that 81% of all reported telecourse uses had between 13 and 15 hours of video.

The range from two to 48 hours results from several factors. Some were developed by colleges for their own use. These show a greater variation in the hours of programming than those produced by the major telecourse producers. Some shorter series were produced in order to fit into prime time television scheduling. Also, errors were made in the data submitted by project participants which is explained below.

The third column shows the percent of the 172 participating institutions reporting the use of a telecourse with that number of hours of programming. For example, 74 percent of the institutions reported offering at least one telecourse with 13 hours of video. The total of 292 percent results from institutions offering telecourses with different total hours of video.

The right hand column is the percent of all telecourses having the specified number of hours of programming. For example, 32 percent of the 185 telecourses reported at least once had 15 hours of video. The percentages add to 186. This column should be much closer to, but still greater than, 100 percent. That is, each telecourse should have only one number for hours of programming except for those cases where an institution either produced supplemental programs or it did not use all those which came with the license. A review of the data leads to the following explanations. Telecourses with an odd number of programs were rounded both up and down to the next whole number; the number of programs in a telecourse was reported rather than the total number of hours of video programming; and, several telecourses could be offered as one or more separate courses (e.g., "Economics U$A" and "French In Action").

Table M.1 indicates that many colleges are willing to use telecourses with a wide range of total hours of video. Many may not have a "standard" that their selection and use of telecourses must meet.

TABLE M.1

NUMBER OF PROGRAMS IN TELECOURSES

Hours Video	% of Uses of Telecourses	% of Reported Institutions	% of Reported Telecourses
2	*	1	1
3	1	4	4
4	1	3	5
5	1	4	5
6	1	6	3
7	4	16	24
8	2	8	10
9	1	6	3
10	4	10	5
11	1	5	5
12	2	6	8
13	24	74	23
14	10	49	8
15	47	66	32
16	1	9	2
17	*	1	1
18	1	5	2
19	*	1	1
20	*	1	1
22	*	1	1
23	*	2	2
24	*	1	1
26	*	2	3
28	*	2	1
30	1	2	5
33	*	1	1
35	*	1	1
36	*	1	1
39	*	1	1
40	*	1	1
45	*	1	1
48	*	1	1
	Total:	292%	186%

NOTES: * indicates less than .5%.
Reported hours of video greater than 24 is mostly due to data being entered for the number of programs rather than hours of video. These records will be corrected in future uses of the database. This is also true for Table M.2.

Table M.2 addresses this issue more directly. It indicates the fewest number of hours of video in a telecourse used by each institution. Thus, for 49% of the participating institutions 13 hours was the minimum.

TABLE M.2

MINIMUM HOURS OF VIDEO USED BY INSTITUTIONS

Hours Video	Percent of Institutions
2	1%
3	3
4	3
5	1
6	3
7	11
8	2
9	2
10	6
11	1
12	3
13	49
14	3
15	7
16	
17	
18	1
19	
20	
22	
23	
24	1
26	2
28	
30	1
33	
35	
36	
39	1
40	
45	
48	

Note: Hours of video greater 24 and greater are mostly due to data being entered for the number of programs rather than hours of video.

Table M.3 examines the use of telecourses by hours of video and the degree level of the granting institution. The data reveal that there is a tendency for four year/graduate institutions and two year comprehensive institutions to offer telecourses with a wider range of hours of video than either two year academic only and vocational/technical institutions.

TABLE M.3

DEGREE GRANTING LEVEL OF INSTITUTION

Hours Video	2 Year Academic	2 Year Ac. & Voc./Tech	2 Year Voc./ Tech. Only	Bachelors/ Graduate
2		*		
3		3%		1%
4	2%	1		9
5		2	7%	4
6	2	1		5
7	2	14	7	14
8	5	4		8
9	2	1		7
10	2	9		3
11		3		1
12	2	6		
13	20	16	47	23
14	3	5	20	8
15	44	21	20	12
16	5	1		1
17		*		
18	2	1		
19		*		
20	2	*		
22		*		
23		1		
24				1
26	2	1		1
28	2	1		
30		4		
33		*		
35				1
36	3			
39		*		
40		*		
45	2	*		
48		*		

Note: * indicates <.5%

N. ACADEMIC DEPARTMENT OFFERING TELECOURSE

Table N.1 lists the ten academic departments which were most frequently reported as offering a telecourse. Perhaps the least expected department was child development where six different telecourses were used a total of 51 times.

TABLE N.1

DEPARTMENTS MOST OFTEN OFFERING TELECOURSES

Department	Telecourse Uses	Enrollments
Business Management	215	9620
Psychology	141	7290
Sociology	132	6264
History	110	6963
Social Science	80	7929
Economics	75	2773
English	70	3176
Humanities	64	3450
Child Development	51	1884
Computer Science	51	1661

A related issue is which departments offered the greatest number of different telecourses. This is shown in Table N.2.

TABLE N.2

NUMBER OF DIFFERENT TELECOURSES OFFERED IN A DEPARTMENT

Department	Number of Different Telecourses
Social Sciences	24
History	19
Business Management	16
English	14
Psychology	14
Sociology	13
Humanities	11
General Education	11

Most telecourses were offered by one department at most institutions. However, some lent themselves to use by several departments. Table N.3 shows the telecourses that were offered in more than five different departments among all the reporting institutions. Of these ten telecourses, five rank low in terms of the total number of times they were reported and in total enrollment.

Several telecourses in the table have low total reported enrollments and uses as telecourses. However, they were still offered in a large number of departments.

TABLE N.3

TELECOURSES OFFERED IN THE MOST DIFFERENT DEPARTMENTS

Telecourse	Number of Departments
The Business File	16
Oceanus	12
The Business of Management	11
The Growing Years	11
The New Literacy	10
Personal Finance and Money Management	9
The Constitution: That Delicate Balance	8
The Art of Being Human	6
Earth, Sea & Sky	6
American Government Survey	6

O. NUMBER OF CREDIT HOURS FOR TELECOURSE

Most telecourses are offered as three credit hour courses. Few telecourses have been reported as being offered for other than three credits. There appears to be no clear relationship among those having been offered for different amounts of credit. The only observed relationship is that the more any telecourse was used the more likely it was offered by some institutions for other than three credits.

TABLE O.1

COLLEGE CREDIT HOURS OF TELECOURSE

Credit Hours	% of Telecourse Uses	% of Enrollments
1	1%	<.5%
2	3	2
3	91	92
4	3	3
5	1	*
6	1	*
8	*	*
9	*	*

P. DOES THE TELECOURSE CARRY THE SAME CREDIT HOURS AS ITS ON-CAMPUS COUNTERPART?

In only eight of 1,769 reported uses of telecourses did an institution report that the telecourse was awarded fewer credit hours than its on-campus equivalent. Each of the eight cases was for a different telecourse and a different institution. There is clearly no evidence that telecourses are valued differently than on-campus classes.

Table P.1 also shows that institutions offer telecourses even though there is no on-campus equivalent class. Some institutions only offer a course because it is available as a telecourse. Twenty-two percent of the participating institutions have offered at least one telecourse even though there was not an on-campus equivalent.

TABLE P.1

TELECOURSE HAS SAME CREDIT HOURS AS ON-CAMPUS EQUIVALENT

Credit Equivalence	% of Reported Telecourses
Same as On-campus	98%
Fewer Credits	<.5
No on-campus equivalent	2

Q. DOES THE TELECOURSE HAVE THE SAME ACCEPTANCE AS ON-CAMPUS COUNTERPART

In most cases telecourses carry the same acceptance on student transcripts and for other college policies as on-campus courses.

TABLE Q.1

ACCEPTANCE OF TELECOURSES

	% of Telecourses	% of Institutions
No difference	90%	89%
Identified on transcript	4	6
Limited in # of telecourse credit hours	2	4
Special Assessment	2	<.5
Other	2	10*
	Total:	110

NOTES: Institutional percentage total equals 109% due to some institutions reporting data for telecourses in more than one way. A review of the data indicates that "Other" responses did not limit students in either the taking or transferring telecourse credits.

R. TELECOMMUNICATIONS SYSTEMS USED TO DELIVER VIDEO PROGRAMMING

This question obtained information that is somewhat subjective in nature. It asks the method(s) used by institutions to deliver the video programming to students. The subjective component is that the person completing the reports had to indicate the relative importance of each of these methods. It is unknown how many institutions have surveyed their students on how they view programs for each telecourse which they offer.

It should be noted at this point that in all tables in this section most, if not all, the data for "Addressable Cable TV" should be added to "Subscriber Cable TV". A review of the data indicates some misinterpretation of the response codes for this question. Institutions will be questioned about this data. For this report readers should also read the tables by combining "Addressable cable tv" with "Subscriber cable tv."

Table R.1 on the next page contains the results for this question. Broadcast television is clearly the single most important delivery system used by institutions today. However, an examination of the overall importance of the delivery systems reveals that broadcast television and video cassette tapes are of almost equal importance. And, even though subscriber cable television ranks a low third in first importance, it is the most important second delivery system.

This relative overall importance of video cassettes and subscriber cable television probably would not have been true several years ago. Broadcast television would have been much more important. During the next few years video cassettes and cable television may become even more important, particularly as the most important delivery system.

The data in Table R.1 show how institutions evaluated the relative importance of each delivery system for each reported use of a telecourse. Table R.2 indicates the percentage of the participating institutions that used each delivery system.

Seventy-five percent of the institutions use broadcast television as one of their most important delivery systems, i.e., for at least one reported use of a telecourse. (Please note that rows in Table R.2 can not be added to obtain the total percentage of institutions that used a particular delivery system. That data is in Table R.5.)

Although 75% of the institutions reported that broadcast television was their most important delivery system for at least one of their uses of telecourses, for only 54% of the reported uses of telecourses was it ranked as the most important delivery system. This apparent discrepancy can be explained by a number of factors. Even though a college might rank broadcast television as their most important deliver system, it would not always be able to broadcast all their telecourses. This could be due to limited air time, cost of broadcasting fees, and possibly other reasons. However, it can be concluded that colleges probably use broadcast television much less frequently than they desire to. How great would the impact be on telecourse uses, institutions offering telecourses, and enrollments if all institutions could show their telecourse programming at least once on a broadcast television station? The increasing use of alternatives such as cable television and video cassettes are effective alternatives to the limitations of broadcast television.

On the other hand, although 23% of the institutions ranked video cassettes as their most important delivery system, it was reported as the most important delivery system for 26% of the reported uses of telecourses.

TABLE R.1

HOW STUDENTS VIEWED VIDEO PROGRAMS

	All Uses of Telecourses			
Delivery System	Most Important	Second of Importance	Third of Importance	1+2+3
Addressable cable tv	5%	4%	2%	11
Broadcast television	54	11	5	70
ITFS	2	0	1	3
Subscriber cable tv	12	33	4	49
Video tape	26	24	14	64
Not used	-	28	73	

TABLE R.2

PARTICIPATING INSTITUTIONS USE OF DELIVERY SYSTEMS BY IMPORTANCE

Delivery System	Most Important	Second of Importance	Third of Importance
Addressable cable tv	8	7	2
Broadcast television	75	13	6
ITFS	1	0	1
Subscriber cable tv	20	45	5
Video tape	23	35	24

Table R.3 shows that the average enrollment in telecourses having broadcast television as their most important delivery system is much higher than the other delivery systems. This is another indication of the importance of broadcast television, but the data should not be interpreted as a causal relationship. It does not directly measure the impact on enrollments of broadcasting a telecourse as compared to other delivery systems, although there can be little doubt that broadcasting increases enrollments.

TABLE R.3

MOST IMPORTANT DELIVERY SYSTEM AND ENROLLMENTS

Delivery System	% of Total Enrollment	Avg. Enrollment Per Tel. by Delivery System
Addressable cable tv	3%	30
Broadcast television	67	62
ITFS	2	48
Subscriber cable tv	10	40
Video tape	15	28

Is there a relationship between the number of delivery systems which students can access and the average enrollment in a telecourse? Table R.4 clearly indicates that there is. Over all average enrollments are almost twice as large for those telecourses using three delivery systems compared to those using one. This relationship holds true for when either broadcast television or subscriber cable television are the most important delivery system. However, additional information may be needed in order to explain why the number of delivery systems does not affect average enrollment in telecourses having video tapes as the most important delivery system.

TABLE R.4

NUMBER OF DELIVERY SYSTEMS AND ENROLLMENTS

	1 System		2 Systems		3 Systems	
Most Important Delivery System	Tel. Uses	Avg. Enrol.	Tel. Uses	Avg. Enrol.	Tel. Uses	Avg. Enrol.
Addressable cable tv	<.5%	26	3%	32	1%	27
Broadcast television	10	42	10	62	16	72
ITFS	0	-	0	-	2	48
Subscriber cable tv	2	31	6	35	3	59
Video tape	14	25	8	29	4	24
Totals:	27%	33	46%	50	27%	59

NOTES: Tel. Uses = percent of total reported telecourse uses.
Avg. Enrol. = average enrollment per telecourse use for that most important delivery system and number of delivery systems.

Table R.5 lists the percent of the participating institutions which used the different video delivery systems at least once. For example, 85% reported using broadcast television. Remember that most of the institutions reporting using addressable cable television should be added to the subscriber cable television number. This results in cable television being used by 72% of the institutions.

The percentages total to 223. This indicates that on the average each institution used a little over two different telecommunications technologies to deliver telecourse programming.

TABLE R.5

INSTITUTIONAL USE OF TELECOMMUNICATION SYSTEMS

Delivery System	% of Institutions Using System
Addressable cable tv	16%
Broadcast television	85
ITFS	1
Point-to-point microwave	1
Subscriber cable tv	56
Videodisc	1
Video tape	63
	223%

An interesting aspect of this research project to watch during the next two years is the use of telecourse delivery systems. The relative importance of each may change which may also impact average enrollments. In some cases access to more delivery systems may increase average enrollments. However, the decreasing cost of delivery systems may reduce average enrollments because colleges will find it cost effective to offer telecourses with lower enrollments.

S. HOURS OF INSTRUCTION BY NON-TELECOMMUNICATION SYSTEM

Over two-thirds of the reporting institutions require students to attend at least one hour of on-campus activity supervised by a faculty member. In most cases this consists of an orientation session at the start of the semester and monitoring periodic exams. However, in some institutions much more contact is required.

Variations in the number of hours of faculty contact is probably due to several factors. Some faculty monitor exams and the number of hours of examinations may vary. Several courses have laboratory activities which may require on-campus attendance. Several periodic contacts between students and instructors may be required during the semester. There may also be state requirements.

TABLE S.1

HOURS OF NON-TELECOMMUNICATIONS INSTRUCTION BY FACULTY

Hours	% of Reported Telecourses	% of Institutions
0	14%	31%
1	4	3
2	2	4
3	10	10
4	11	13
5	7	14
6	8	16
7	3	9
8	4	6
9	3	9
10	5	11
11	<.5	3
12	2	10
13	1	2
14	1	3
15	4	15
16	1	8
17	<.5	2
18	15	18
19	0	0
20	10	6
20+	less than .5% each	

Note that "% of Institutions" sums to 193%. This results because the requirements of some institutions differ among their telecourses.

Table S.2 indicates that 52% of the participating institutions have the same requirement concerning on-campus contact with the instructor for all their telecourses. Almost one-fourth of the institutions have three or more telecourses with different on-campus requirements.

TABLE S.2

NUMBER OF DIFFERENT HOURS OF REQUIRED CONTACT PER INSTITUTION

Number of Different Requirements	Institutions
1	52%
2	24
3	8
4	9
5	2
6	1
7	1
8	1
9	0
10	1
13	1

T. OFFICIAL REPORTED ENROLLMENT

There has been previous discussion of enrollment. However, there are several additional points which can be made relating to enrollment patterns. Table T.1 shows the distribution of enrollments per telecourse use. Thirteen reported telecourse offerings had only one student enrollment while the largest had 690. Average enrollment per telecourse use was 48.

TABLE T.1

FREQUENCY OF ENROLLMENTS PER TELECOURSE USE

Enrollment Per Reported Telecourse	Percent of Total Use
1-25	39
26-50	33
51-75	14
76-100	6
101-125	3
126-150	1
151-175	1
176-200	1
201-225	1
226-250	1
251-275	1

NOTE: All remaining intervals up to 476-500 have less than .5%

U. PERCENT OF INSTRUCTION BY TELECOMMUNICATIONS THAT WAS LIVE

Seven percent of the reported telecourses used some form of telecommunications system to offer live instruction to the students. This was in addition to the recorded telecourse programs. Seven institutions accounted for 68 percent of the reported cases.

This data is further evidence that institutions use telecourses as an instructional resource to be used with other materials and technologies to provide postsecondary instruction to distant learners.

V. FORMS OF TELECOMMUNICATIONS AVAILABLE FOR STUDENT-FACULTY INTERACTION

This question was designed to determine the role that telecommunications systems are being used for student-faculty interaction outside of an organized environment. Audio conferences via a telephone bridge, electronic mail, and sending micro computer diskettes via the mail are several of the possibilities. Only five percent of the reported uses of telecourses gave students at least one of these options.

By far the most common method was access to an audio bridge. Eighteen institutions reported the use of an audio bridge. Five used electronic mail and floppy diskettes.

During the next two years of the research project there may be a marked increase in the use of these technologies to increase student-faculty interaction.

W. LEVEL OF INSTRUCTION FOR THE TELECOURSE

Table W.1 indicates the course level at which the telecourse was offered. The data may under-report represent junior/senior level uses of telecourses because two year institutions may be over-represented in the database. During the next two years the percentage of courses offered at the upper under graduate level may increase as more upper level institutions participate and additional telecourses are produced that are appropriate for this level of instruction.

TABLE W.1

COURSE LEVEL OF TELECOURSES

	% of Reported Telecourses	% of Total Enrollments
Freshman/Sophomore	94.4%	95.3%
Junior/Senior	4.0	3.9
Masters	.7	.4
Ph.D.	.1	<.05
Other	.7	.3

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INPUT DATA SHEET A
INPUT DATA SHEET B

SURVEY OF COLLEGE CREDIT TELECOURSES FOR DISTANT LEARNERS

RESEARCH BY:

THE INSTRUCTIONAL TELECOMMUNICATIONS CONSORTIUM/AACJC

FUNDED BY:

THE ANNENBERG/CPB PROJECT

PURPOSE

This project collects data on the utilization of telecourses by postsecondary institutions to reach distant learners in the United States and Canada. Not all uses of telecourses are included. The video programs must use telecommunications systems to reach distant learners by taking prerecorded instructional materials to students at off-campus sites. Also, only courses consisting primarily of prerecorded instructional materials are included.

Included in the study are courses using distant learning systems that deliver instructional materials to students by either sending or lending video tapes to students. However, this study does not include courses using only print materials.

Live televised classes offered via a telecommunications system, such as ITFS, and audio conferencing, are not included in this study.

PARTICIPATION:

The project is committed to collect data for at least three years in order to build a longitudinal data base. It is necessary that a sufficiently large number of institutions participate in the project on a consistent basis in order for the data base to be usable. It is hoped that a wide variety of two year academic and vocational/technical institutions, and upper level colleges and universities will participate. An institution may join the project at any time; however, it should be willing to maintain participation for the duration of the project.

BENEFITS FROM PARTICIPATION

Participating institutions will receive annual reports. Reports will also be made for institutions, consortia and state systems as requested. However, a fee to cover the cost of data processing and preparing the reports may be required. Contact either the Project Director or The Annenberg/CPB Project for information on obtaining custom reports and their cost.

The acquisition of this data will make it possible for participating institutions and individuals to request reports on a wide variety of topics. The reports would be valuable for:

- Planning and implementing telecourse programs.

- For the review and adoption of telecourses.
- Use or production of supplemental materials.
- Maintaining an updated list of media based courses for distant learners.
- Marketing analysis for the production and distribution of telecourses.

INFORMATION ON PARTICIPATING IN PROJECT

For additional information about either the completion of the data input sheets or for reports, contact:

Ron Brey
Coordinator Non-Traditional Instruction
Austin Community College
P.O. Box 2285
Austin, TX 78768

512-495-7571

INSTRUCTIONS FOR COMPLETING DATA INPUT SHEETS

There are two data input sheets. Only one "Input Sheet A" is completed each semester. It contains general information about the institution. Each semester the data for items A, B and C must be reported. For second and subsequent semesters it is necessary to provide only the information for items D, E and F which have changed since the previous report.

Data "Input Sheet B" must be completed for each course to be included in the data base. All data must be entered the first time a course is reported. However, in subsequent semesters the data for item G and only those other items which have changed, such as enrollment (T) need be reported.

Some of the questions are followed by blank lines. Use these to enter the requested information when you can not find an appropriate response in the CODE SHEETS. The CODE SHEETS will be updated at least once a year.

All data should be entered right justified; e.g., for a possible three digit response 10 is __ _1_ _0_, not _1_ _0_ __. Leading 0s are not necessary.

Once the Data Input Sheets have been entered in the database you will receive a computer generated printout with the data form the A and B sheets for your institution. These will have space for entering the data for the next semester. Only the data has changed, e.g. enrollment, will need to be entered.

A. INSTITUTION:

This is the name of the reporting institution. Enter the name of the district only if the data is from more than one institution in the district. Enrollment by college in a district is preferred. Please inform the project director if data reporting is changed from a district to separate colleges or vice versa.

PLEASE READ YOUR INSTITUTION'S NAME AND ITS CORRESPONDING CODE NUMBER CAREFULLY. CODE NUMBERS ARE NOT IN COMPLETE ASCENDING NUMERICAL ORDER.

INSTITUTION	CITY	STATE	CODE
AIMS COMMUNITY COLLEGE	GREELEY	CO	2
ALCORN STATE UNIVERSITY	LORMAN	MS	3
ALLAN HANCOCK COLLEGE	SANTA MARIA	CA	4
ALVIN COMMUNITY COLLEGE	ALVIN	TX	6
AMARILLO COLLEGE	AMARILLO	TX	8
AMERICAN EDUCATIONAL COMPLEX	KILEEN	TX	1008
AMERICAN RIVER COLLEGE	SACRAMENTO	CA	2008
ANCHORAGE COMMUNITY COLLEGE	ANCHORAGE	AK	9
ANGELINA COLLEGE	LUFKIN	TX	10
ANNE ARUNDEL COMMUNITY COLLEGE	ARNOLD	MD	11
ANSON TECHNICAL COLLEGE	ANSONVILLE	NC	12
APPALACHIAN STATE U.	BOONE	NC	14
AQUINAS COLLEGE	GRAND RAPIDS	MI	3014
ARAPAHOE COMMUNITY COLLEGE	LITTLETON	CO	5014
ARIZONIA STATE UNIVERSITY	TEMPE	AZ	15
ARKANSAS EDUC. T. V. CONSORT.	CONWAY	AR	3015
ARKANSAS STATE UNIVERSITY	STATE UNIV.	AR	6015
AREA VTAE DISTRICT #4	MADISON	WI	16
ARROWHEAD COMMUNITY COLLEGE	GRAND RAPIDS	MN	18
ASHEVILLE-BUNCOMBE TECHNICAL COLLEGE	ASHEVILLE	NC	20
ASHLAND COMMUNITY COLLEGE	ASHLAND	KY	21
ASNUNTUCK COMMUNITY COLLEGE	ENFIELD	CT	22
ATLANTIC COMMUNITY COLLEGE	MAYS LANDING	NJ	23
AURORA UNIVERSITY	AURORA	IL	24
AUSTIN COMMUNITY COLLEGE	AUSTIN	TX	28
AUSTIN PEAY STATE UNIVERSITY	CLARKSVILLE	TN	29
AVILA COLLEGE	KANSAS CITY	MO	30
BAKERSFIELD COLLEGE	BAKERSFIELD	CA	32
BALDWIN-WALLACE COLLEGE	BEREA	OH	33
BALL STATE UNIVERSITY	MUNCIE	IN	34
BARTON COUNTY COMMUNITY COLLEGE	GREAT BEND	KS	35
BARSTOW COLLEGE	BARSTOW	CA	36
BAY AREA TELEVISION CONSORTIUM	PALTO ALTON	CA	39
BAY DE NOC COMMUNITY COLLEGE	ESCANABA	MI	40
BEAUFORT COUNTY COMMUNITY COLLEGE	WASHINGTON	NC	44
BEE COUNTY COLLEGE	BEEVILLE	TX	46
BELLARMINE COLLEGE	LOUISVILLE	KY	47
BELLEVILLE AREA COLLEGE	BELLEVILLE	IL	48
BELLEVUE COMMUNITY COLLEGE	BELLEVUE	WA	5048
BELMONT ABBEY COLLEGE	BELMONT	NC	49

BERGEN COMMUNITY COLLEGE	PARAMUS	NJ	50
BISMARK JUNIOR COLLEGE	BISMARK	ND	51
BLACKHAWK VTAE DISTRICT	JANESVILLE	WI	52
BLADEN TECHNICAL COLLEGE	DUBLIN	NC	56
BLINN COLLEGE	BRENHAM	TX	58
BLOOMFIELD COLLEGE	BLOOMFIELD	NJ	2058
BLOOMSBURG UNIVERSTIY	BLOOMSBURG	PA	5058
BLUEFIELD STATE COLLEGE	BLUEFIELD	WV	7058
BLUE MOUNTAIN COMMUNITY COLLEGE	PENDLETON	OR	59
BLUE RIDGE TECHNICAL COLLEGE	FLAT ROCK	NC	60
BOISE STATE UNIVERSITY	BOISE	ID	2060
BOSSIER PARISH COMMUNITY COLLEGE	BOSSIER CITY	LA	5060
BOWIE STATE COLLEGE	BOWIE	MD	61
BOWLING GREEN STATE UNIV.	HURON	OH	5061
BOWLING GREEN STATE UNIV.	BOWLING GREEN	OH	7062
BRAZOSPORT COLLEGE	LAKE JACKSON	TX	62
BREVARD COMMUNITY COLLEGE	COCOA	FL	63
BRIAR CLIFF COLLEGE	SIOUX CITY	IA	2063
BRIDGEWATER COLLEGE	BRIDGEWATER	VA	5063
BRIDGEWATER STATE COLLEGE	BRIDGEWATER	MA	64
BRIGHAM YOUNG UNIVERSTIY	PROVO	UT	2064
BRONX COMMUNITY COLLEGE	BRONX	NY	5064
BROOKSIDE COMMUNITY COLLEGE	LINCROFT	NJ	7064
BROWARD COMMUNITY COLLEGE	FT.LAUDERDALE	FL	65
BRUNSWICK TECHNICAL COLLEGE	SUPPLY	NC	67
BUNKER HILL COMMUNITY COLLEGE	BOSTON	MA	2067
BURLINGTON COUNTY COLLEGE	PEMBERTON	NJ	4067
BUTLER COUNTY COMMUNITY COLL./KS	EL DORADO	KS	6067
BUTTE COLLEGE	OROVILLE	CA	8067
C.S. MOTT COMMUNITY COLLEGE	FLINT	MI	68
CALDWELL COMMUNITY COLLEGE	LENOIR	NC	72
CALIFORNIA STATE UNIV./LONG BEACH	LONG BEACH	CA	74
CALIFORNIA STATE UNIV./HAYWARD	HAYWARD	CA	75
CAMDEN COUNTY COLLEGE	BLACKWOOD	NJ	5075
CAMERON UNIVERSITY	LAWTON	OK	76
CAPE COD COMMUNITY COLLEGE	WEST BARNSTABLE	MD	79
CAPE FEAR TECHNICAL INSTITUTE	WILMINGTON	NC	80
CAPITAL UNIVERSITY/DAYTON CENTER	DAYTON	OH	82
CAPITAL UNIVERSITY	COLUMBUS	OH	83
CARL ALBERT JUNIOR COLLEGE	POTEAU	OK	84
CARL SANDBURG COLLEGE	GALESBURG	IL	88
CARTERET TECHNICAL COLLEGE	MOREHEAD CITY	NC	92
CARTHAGE COLLEGE	KENOSHA	WI	94
CATAWBA VALLEY TECHNICAL COLLEGE	HICKORY	NC	96
CATONSVILLE COMMUNITY COLLEGE	CATONSVILLE	MD	98
CAZENOVIA COLLEGE	CAZENOVIA	NY	3098
CECIL COMMUNITY COLLEGE	NORTHEAST	MD	5098
CENTRAL AGENCY FOR JEWIS EDUCATION	DENVER	CO	99
CENTRAL ARIZONIA COLLEGE	FLORENCE	AZ	5099
CENTRAL CAROLINA TECHNICAL COLLEGE	SANFORD	NC	100
CENTRAL FLORDIA COMMUNITY COLLEGE	OCALA	FL	101
CENTRAL MICHIGAN UNIVERSITY	MT.PLEASANT	MI	5101
CENTRAL MISSOURI STATE UNIVERSITY	WARRENSBURG	MO	102
CENTRAL OREGON COMMUNITY COLLEGE	BEND	OR	103
CENTRAL PIEDMONT COMMUNITY COLLEGE	CHARLOTTE	NC	104

CENTRAL STATE UNIVERSITY	EDMOND	OK	108
CENTRAL TEXAS COLLEGE	KILEEN	TX	1108
CENTRAL WYOMING COLLEGE	RIVERTON	WY	5108
CENTRALIA COLLEGE	CENTRALIA	WA	109
CERRITOS COLLEGE	NORWALK	CA	112
CERRO COSO COMMUNITY COLLEGE	RIDGECREST	CA	116
CHABOT COLLEGE	HAYWARD	CA	2116
CHADRON STATE COLLEGE	CHADRON	NE	4116
CHARLES COUNTY COMMUNITY COLLEGE	LA PLATA	MD	6116
CHAMINADE UNIVERSITY OF HAWAII	HONOLULU	HI	8116
CHEMEKETA COMMUNITY COLLEGE	SALEM	OR	117
CHESAPEAKE COLLEGE	WYE MILLS	MD	5117
CHICAGO CITY-WIDE COLLEGE	CHICAGO	IL	118
CHICAGO STATE UNIVERSITY	CHICAGO	IL	5118
CHIPOLA JUNIOR COLLEGE	MARIANNA	FL	119
CHIPPEWA VALLEY TECHNICAL COLLEGE	EAU CLARIE	WI	190
CHRISTOPHER NEWPORT COLLEGE	NEWPORT NEWS	VA	2119
CINCINNATI TECHNICAL COLLEGE	CINCINNATI	OH	3119
CISCO JUNIOR COLLEGE	CISCO	TX	5119
CITRUS COLLEGE	GLENDORA	CA	120
CLARK COLLEGE/WA	VANCOUVER	WA	8120
CLARK COUNTY COMMUNITY COLLEGE	N. LAS VEGAS	NV	6120
CLACKAMAS COMMUNITY COLLEGE	OREGON CITY	OR	121
CLATASOP COMMUNITY COLLEGE	ASTORIA	OR	122
CLEARY COLLEGE	YPSILANTI	MI	123
CLEVELAND STATE COMMUNITY COLLEGE	CLEVELAND	TN	5123
CLEVELAND TECHNICAL COLLEGE	SHELBY	NC	124
CLINTON COMMUNITY COLLEGE/IA	CLINTON	IA	5125
CLOUD COUNTY COMMUNITY COLLEGE	CONCORDIA	KS	126
COASTAL CAROLINA COMMUNITY COLLEGE	JACKSONVILLE	NC	128
COASTLINE COMMUNITY COLLEGE	COSTA MESA	CA	132
COLBY COMMUNITY COLLEGE	COLBY	KS	134
COLLEGE OF ALAMEDA	ALAMEDA	CA	136
COLLEGE OF BOCA RATON	BOCA RATON	FL	138
COLLEGE OF DUPAGE	GLEN ELLYN	IL	140
COLLEGE OF GRADUATE STUDIES	INSTITUTE	WV	142
COLLEGE OF LAKE COUNTY	GRAYSLAKE	IL	144
COLLEGE OF MARIN	KENTFIELD	CA	145
COLLEGE OF NEW ROCHELLE	NEW ROCHELLE	NY	146
COLLEGE OF SAN MATEO	SAN MATEO	CA	147
COLLEGE OF THE ALBEMARLE	ELIZABETH CITY	NC	148
COLLEGE OF THE CANYONS	VALENCIA	CA	5148
COLLEGE OF THE DESERT	PALM DESERT	CA	149
COLLEGE OF THE MAINLAND	TEXAS CITY	TX	150
COLLEGE OF THE REDWOODS	EUREKA	CA	2150
COLLEGE OF THE SEQUOIAS	VISILIA	CA	4150
COLLIN COUNTY COMMUNITY COLLEGE DIST.	McKINNEY	TX	1150
COLORADO MOUNTAIN COLLEGE	GLENWOOD SPRINGS	CO	5150
COLORADO STATE UNIVERSITY	FORT COLLINS	CO	6150
COLUMBIA BASIN COMMUNITY COLLEGE	PASCO	WA	7150
COLUMBUS COLLEGE	COLUMBUS	GA	3150
COLUMBUS STATE COMMUNITY COLLEGE	COLUMBUS	OH	8150
COLUMBUS TELECOMM. CENTER	COLUMBAI	MD	9150
COMMUNITY COLLEGE OF AURORA	AUROARA	CO	151
COMMUNITY COLLEGE OF BALTIMORE	BALTIMORE	MD	1151

COMMUNITY COLLEGE OF DENVER	DENVER	CO	2151
COMMUNITY COLLEGE OF FINGER LAKES	CANADAIGUA	NY	3151
COMMUNITY COLLEGE OF PHILADELPHIA	PHILADELPHIA	PA	4151
COMMUNITY COLLEGE OF RHODE ISLAND	LINCOLN	RI	5151
COMPTON COMMUNITY COLLEGE	COMPTON	CA	152
CONCORD COLLEGE	ATHENS	WV	153
CONNECTICUT REGINAL COMM. COLLEGE	HARTFORD	CT	154
CONSUMNES RIVER COLLEGE	SACRAMENTO	CA	155
CONTRA COSTA COLLEGE	SAN PABLO	CA	156
CONVOCOM	SPRINGFIELD	IL	157
COOKE COUNTY COLLEGE	GAINESVILLE	TX	158
COPIAH-LINCOLN JUNIOR COLLEGE	WESSON	MS	5158
COPPIN STATE COLLEGE	BALTIMORE	MD	159
COUNTY COLLEGE OF MORRIS	RANDOLPH	NJ	5159
CRAFTON HILLS COLLEGE	YUCAIPA	CA	160
CRAVEN COMMUNITY COLLEGE	NEW BERN	NC	164
CUMBERLAND COLLEGE	WILLIAMSBURG	KY	5164
CUNY/JOHN JAY COLLEGE	NEW YORK	NY	165
CUNY/CITY NIOV. OF NY-GRADUATE	NEW YORK	NY	3165
CUYAHOGA COUNTY COMMUNITY COLLEGE	CLEVELAND	OH	167
CUYAMCA COLLEGE	EL CAJON	CA	168
CYPRESS COLLEGE	CYPRESS	CA	172
DALLAS COUNTY COMMITY COLLEGE DISTRICT	DALLAS	TX	174
DAVIDSON COUNTY COMMUNITY COLLEGE	LEXINGTON	NC	176
DAYTONA BEACH COMMUNITY COLLEGE	DAYTONA BEACH	FL	177
DE ANZA COLLEGE	CUPERTINO	CA	180
DEKALB COLLEGE	CLARKSTON	GA	181
DELAWARE COUNTY COMM. COLLEGE	MEDIA	PA	4181
DELAWARE TECH & COMMUNITY COLLEGE	NEWARK	DE	5181
DEL MAR COLLEGE	CORPUS CHRISTI	TX	182
DENISON UNIVERSITY	GRANVILLE	OH	183
DELTA COLLEGE	UNIVER. CENTER	MI	184
DELTA STATE UNIVERSITY	CLEVELAND	MS	185
DES MOINES AREA COMM. COLLEGE	AKENY	IA	186
DETROIT COLLEGE OF BUSINESS	DEARBORN	MI	187
DIABLO VALLEY COLLEGE	PLEASANT HILL	CA	188
DODGE CITY COMMUNITY COLLEGE	DODGE CITY	KS	2190
DRAKE UNIVERSITY	DES MOINES	IA	4190
DRURY COLLEGE	SPRINGFIELD	MO	6190
DUKE UNIVERSITY	DURHAM	NC	8190
DUNDALK COMMUNITY COLLEGE	BALTIMORE	MD	191
DUPAGE KANE ED. SRV. CENTER	WHEATON	IL	5191
DURHAM TECHNICAL COMMUNITY COLLEGE	DURHAM	NC	192
DUTCHESS COMMUNITY COLLEGE	POUGHKEEPSIE	NY	193
DYERSBURG STATE COMM. COLLEGE	DYERSBURG	TN	194
EARLHAM COLLEGE	RICHMOND	IN	5194
EAST ARKANSAS COMMUNITY COLLEGE	FORREST CITY	AR	195
EAST CENTRAL COLLEGE	UNION	MO	196
EAST CENTRAL JUNIOR OLLEGE	DECATUR	MS	198
EAST CENTRAL OKLAHOMA STATE UNIVERSITY	ADA	OK	200
EAST LOS ANGELES COLLEGE	MONTEREY PARK	CA	204
EAST STROUDSBURG UNIV OF PA	E. STROUDSBURG	PA	205
EAST TENNESEE STATE UNIVERSITY	JOHNSON CITY	TN	5205
EAST TEXAS STATE UNIV. AT TEXARKANA	TEXARKANA	TX	206
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EASTERN IOWA COMMUNITY COLLEGE DIST.	BETTENDORF	IA	5207
EASTERN OKLAHOMA STATE COLLEGE	WILBURTON	OK	208
EASTERN OREGON STATE COLLEGE	LAGRANDE	OR	209
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EL CAMINO COLLEGE	TORRANCE	CA	216
EL PASO COMMUNITY COLLEGE	EL PASO	TX	218
EL RENO JUNIOR COLLEGE	EL RENO	OK	220
ELGIN COMMUNITY COLLEGE	ELGIN	IL	224
ELIZABETHTOWN COMMUNITY COLLEGE	ELIZABETHTOWN	KY	5224
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EMPORIA STATE UNIVERSITY	EMPORIA	KS	226
ENTERPRISE STATE JUNIOR COLLEGE	ENTERPRISE	AL	5226
ESSEX COMMUNITY COLLEGE	BALTIMORE	MD	227
EVERGREEN VALLEY COLLEGE	SAN JOSE	CA	228
FAIRFIELD UNIVERSITY	FAIRFIELD	CT	229
FAIRMONT STATE COLLEGE	FAIRMONT	WV	230
FARMINGTON HIGH SCHOOL	FARMINGTON	MI	231
FAYETTEVILLE TECHNICAL INSTITUTE	FAYVETTEVILLE	NC	232
FLAMING RAINBOW UNIVERSITY	STILWELL	OK	236
FLATHEAT VALLEY COMMUNITY COLLEGE	KALISPELL	MT	5236
FLORDIA COLLEGE	TEMPLE TERRACE	FL	237
FLORIDA COMM. COLLE.AT JACKSONVILLE	JACKSONVILLE	FL	2237
FLORIDA DEPT. OF EDUCATION	TALLAHASSEE	FL	4237
FLORDIA INTERNATIONAL UNIVERSITY	NORTH MIAMI	FL	6237
FLORIDA JUNIOR COLLEGE	JACKSONVILLE	FL	238
FLORDIA KEYS COMMUNITY COLLEGE	KEY WEST	FL	239
FLORDIA MEMORIAL COLLEGE	MIAMI	FL	3239
FLORIDA STATE UNIVERSITY	TALLAHASSEE	FL	6239
FOOTHILL COLLEGE	LOS ALTOS HILLS	CA	240
FORSYTH TECHNICAL COLLEGE	WINSTON-SALEM	NC	244
FORT HAYS STATE UNIVERSITY	HAYS	KS	245
FORT SCOTT COMMUNITY COLLEGE	FORT SCOTT	KS	246
FORT WAYNE BIBLE COLLEGE	FORT WAYNE	IN	247
FOX VALLEY VTAE DISTRICT	APPLETON	WI	248
FRANK PHILLIPS COLLEGE	BORGER	TX	250
FREDERICK COMMUNITY COLLEGE	FREDERICK	MD	5250
FRESNO CITY COLLEGE	FRESON	CA	251
FRONT RANGE COMMUNITY COLLEGE	WESTMINSTER	CO	5251
FULLERTON COLLEGE	FULLERTON	CA	252
GALVESTON COLLEGE	GALVESTON	TX	254
GARLAND COUNTY COMMUNITY COLLEGE	HOT SPRINGS	AR	255
GARRETT COMMUNITY COLLEGE	MCHENRY	MD	5255
GASTON COLLEGE	DALLAS	NC	256
GATEWAY VTAE DISTRICT	KENOSHA	WI	260
GENESEE COMMUNITY COLLEGE	BATAVIA	NY	5260
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GEORGE WASHINGTON UNIVERSITY	ARLINGTON	VA	5261
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GLENDALE COMMUNITY COLLEGE	GLENDALE	CA	264
GLENOAKS COMMUNITY COLLEGE	CENTERVILLE	MI	265
GLENVILLE STATE COLLEGE	GLENVILLE	WV	5265
GLOUCHESTER COMMUNITY COLEIGE	SEWALL	NJ	266
GMI ENGIN. & MNGMNT. INSTITUTE	FLINT	MI	5266
GOEBIC COMMUNITY COLLEGE	IRONWOOD	MI	267
GOLDEN WEST COLLEGE	HUNTINGTON BEACH	CA	268
GOSHEN COLLEGE	GOSHEN	IN	270
GOVERNORS STATE UNIVERSITY	UNIVERSITY PARK	IL	272
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GRAND VALLEY STATE COLLEGE	ALLENDALE	MI	280
GRATZ COLLEGE	PHILADELPHIA	PA	281
GRAYSON COUNTY JUNIOR COLLEGE	DENISON	TX	282
GREATER HARTFORD COMMUNITY COLLEGE	HARTFORD	CT	283
GREENVILLE COLLEGE	GREENVILLE	IL	5283
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GUILFORD TECHNICAL COMMUNITY COLLEGE	JAMESTOWN	NC	288
GULF COST COMMUNITY COLLEGE	PANAMA CITY	FL	290
GUSTAVUS ADOLPHUS COLLEGE	SAINT PETER	MN	291
HAGERSTOWN JUNIOR COLLEGE	HAGERSTOWN	MD	5291
HALIFAX COMMUNITY COLLEGE	WELDON	NC	292
HAMPDEN-SYDNEY COLLEGE	HAMPDEN-SYDNEY	VA	292
HAMPTON INSTITUTE	HAMPTON	VA	5293
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HARFORD COMMUNITY COLLEGE	BEL AIR	MD	5294
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HARRISBURG AREA COMMUNITY COLLEGE	HARRISBURG	PA	5295
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HAYWOOD TECHNICAL COLLEGE	CLYDE	NC	300
HEBREW THEOLOGICAL COLLEGE	SKOIE	IL	301
HENDERSON COMMUNITY COLLEGE	HENDERSON	KY	5301
HENDERSON COUNTY JUNIOR COLLEGE	ATHENS	TX	302
HENRY FORD COMMUNITY COLLEGE	DEARBORN	MI	304
HESSTON COLLEGE	HESSTON	KS	306
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HIGHLAND PARK COMMUNITY COLLEGE	HIGHLAND PARK	MI	309
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HILLSBOROUGH COMMUNITY COLLEGE	PLANT CITY	FL	310
HINDS JUNIOR COLLEGE	JACKSON	MS	5310
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HOUSTON COMMUNITY COLLEGE	HOUSTON	TX	312
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HOWARD COUNTY JUNIOR COLLEGE	BIG SPRING	TX	314
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IDAHO STATE UNIVERSITY	POCATELLO	ID	5315
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JACKSON STATE UNIVERSITY	JACKSON	MS	3331
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JAMES SPRUNT TECHNICAL COLLEGE	KENANSVILLE	NC	332
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KEARNEY STATE COLLEGE	KEARNEY	NE	359
KEENE STATE COLLEGE	KEENE	NH	5359
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KENTUCKY STATE UNIVERSITY	FRANKFORT	KY	362
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LABETTE COMMUNITY COLLEGE	PARSONS	KS	5376
LAKE CITY COMMUNITY COLLEGE	LAKE CITY	FL	377
LAKELAND COMMUNITY COLLEGE	MENTOR	OH	5377
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LEXINGTON COMMUNITY COLLEGE	LEXINGTON	KY	404
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LOUISANA STATE UNIV/EUNICE	EUNICE	LA	5441
LOUISANA STATE UNIV/SHREVEPORT	SHREVEPORT	LA	7441
LOYOLA UNIVERSITY OF CHICAGO	CHICAGO	IL	442
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MADISONVILLE COMMUNITY COLLEGE	MADISONVILLE	KY	3445
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MANCHESTER COMMUNITY COLLEGE	MANCHESTER	CT	5446
MANATEE COMMUNITY COLLEGE	BRADENTON	FL	447
MARIN COMMUNITY COLLEGE	KENTFIELD	CA	448
MARTIN COMMUNITY COLLEGE	WILLIAMSTON	NC	452
MARY BALDWIN COLLEGE	STAUNTON	VA	3452
MARY COLLEGE	BISMARK	ND	6452
MARYGROVE COLLEGE	DETROIT	MI	453
MARYLAND COLLEGE OF THE AIR	OWINGS MILLS	MD	3453
MARYVILLE COLLESE/MO	ST. LOUIS	MO	6453
MARSHALL UNIVERSITY	HUNTINGTON	WV	454
MASSASOIT COMMUNITY COLLEGE	BROCKTON	MA	5454
MASSACHUSETTS BAY COMM. COLLEGE	WELLESLEY HILLS	MA	455
MATTATUCK COMMUNITY COLLEGE	WATERBURY	CT	5455
MAYLAND TECHNICAL COLLEGE	SPRUCE PINE	NC	456
MAYSVILLE COMMUNITY COLLEGE	MAYSVILLE	KY	457
MC LENNAN COMMUNITY COLLEGE	WACO	TX	458
MCDOWELL TECHNICAL COLLEGE	MARION	NC	460
MCHENRY COUNTY COLLEGE	CRYSTAL LAKE	IL	464

MCNEESE STATE UNIVERSITY	LAKE CHARLES	LA	465
MCPHERSON COLLEGE	MCPHERSON	KS	467
MEMPHIS STATE UNIVERSITY	MEMPHIS	TN	5467
MENDOCINO COLLEGE	UKIAH	CA	468
MERCER COUNTY COLLEGE	TRENTON	NJ	469
MERIDAN JUNIOR COLLEGE	MERIDAN	MS	470
MERRITT COLLEGE	OAKLAND	CA	472
METROPOLITAN STATE COLLEGE	DENVER	CO	473
METROPOLITAN TECHNICAL COMM. COLL.	OMAHA	NE	474
MIAMI-DADE COMMUNITY COLLEGE	MIAMI	FL	475
MICHIGAN TECHNOLOGICAL UNIVERSITY	HOUGHTON	MI	2475
MIDDLEBURY COLLEGE	MIDDLEBURY	VT	6475
MIDDLESEX COMMUNITY COLLEGE	MIDDLETOWN	CT	8475
MIDDLESEX COMMUNITY COLLEGE/MA	BEDFORD	MA	2476
MIDDLESEX COUNTY COLLEGE	EDISON	NJ	4476
MID MICHIGAN COMMUNITY COLLEGE	HARRISON	MI	476
MID-STATE VTAE DISTRICT	WISCONSIN RAPIDS	WI	480
MIDLAND COLLEGE	MIDLAND	TX	481
MIDWESTERN STATE UNIVERSITY	WICHITA FALLS	TX	483
MILES COLLEGE	FAIRFIELD	AL	5483
MILES COMMUNITY COLLEGE	MILES CITY	MT	482
MILWAUKEE SCHOOL OF ENGINEERING	MILWAUKEE	WI	483
MILWAUKEE AREA TECHNICAL COLLEGE	MILWAUKEE	WI	484
MINNESOTA INDEPENDENT SCHOOL DIST.	ROCHESTER	MN	485
MINNEAPOLIS COMMUNITY COLLEGE	MINNEAPOLIS	MN	486
MINOT STATE COLLEGE	MINOT	ND	487
MIRACOSTA COLLEGE	OCEANSIDE	CA	488
MISS. AUTHORITY FOR ED. TELE.	JACKSON	MS	489
MISS. GULF COAST JR COLL./GAUTIER	JACKSON	MS	490
MISS. GULF COAST JR COLL./GULFPORT	GULFPORT	MS	491
MISSION COLLEGE	SANTA CLARA	CA	492
MISSOURI-ILLINOIS COMMUNITY COLLEGE	ST. LOUIS	MO	5492
MISSOURI SOUTHERN STATE COLLEGE	JOPLIN	MO	493
MISSISSIPPI COLLEGE	CLINTON	MS	5493
MISSISSIPPI COUNTY COMM. COLL.	BLYTHVILLE	AR	494
MISSISSIPPI STATE UNIVERSITY	MISS. STATE	MS	5494
MISSISSIPPI VALLEY STATE UNIVERSITY	ITTA BENA	MS	495
MITCHELL COMMUNITY COLLEGE	STATESVILLE	NC	496
MODESTO JUNIOR COLLEGE	MODESTO	CA	5496
MOHEGAN COMMUNITY COLLEGE	NORWICH	CT	497
MOHAWK VALLEY COMMUNITY COLLEGE	UTICA	NY	5497
MONROE COMMUNITY COLLEGE	ROCHESTER	NY	499
MONROE COUNTY COMMUNITY COLLEGE	MONROE	MI	500
MONTCALM COMMUNITY COLLEGE	SIDNEY	MI	503
MONTEREY PENINSULA COLLEGE	MONTEREY	CA	504
MONTGOMERY COLLEGE	TAKOMA PARK	MD	506
MONTGOMERY TECHNICAL COLLEGE	TROY	NC	508
MOORPARK COLLEGE	MOORPARK	CA	512
MORAINE PARK VTAE DISTRICT	FOND DU LAC	WI	516
MORAINE VALLEY COMMUNITY COLLEGE	PALOS HILLS	IL	520
MOREHEAD STATE UNIVERSITY	MOREHEAD	KY	521
MORGAN COMMUNITY COLLEGE	FORT MORGAN	CO	522
MORTON COLLEGE	CICERO	IL	524
MOTT COMMUNITY COLLEGE	FLINT	MI	526
MOUNT HOOD COMMUNITY COLLEGE	GRESHAM	OR	527

MT. SAN ANTONIO COLLEGE	WALNUT	CA	528
MURRAY STATE COLLEGE	TISHOMINGO	OK	532
MURRAY STATE UNIVERSITY	MURRAY	KY	534
MUSCATINE COMMUNITY COLLEGE	MUSCATINE	IA	535
MUSKEGON COMMUNITY COLLEGE	MUSKEGON	MI	536
N.J. COMMUNITY COLLEGE CONSORTIUM	RANDOLPH	NJ	537
N. J. INSTITUTE OF TECHNOLOGY	NEWARK	NJ	538
NKU UNIVERSITY COLLEGE	COVINGTON	KY	539
NAPA COLLEGE	NAPA	CA	540
NASH TECHNICAL COLLEGE	ROCKY MONT	NC	544
NASHVILLE STATE TECHNICAL INST	NASHVILLE	TN	3544
NATIONAL COLLEGE OF EDUCATION	EVANSTON	IL	5544
NAVAJO COMMUNITY COLLEGE	TSAILE	AZ	545
NAVARRO COLLEGE	CORSICANA	TX	546
NAZARENE BIBLE COLLEGE	COLORADO SPGS.	CO	2546
NEBRASKA WESTERN COLLEGE	SCOTTSBLUFF	NE	4546
NEW JERSEY TELECOMM. PROJ.	TRENTON	NJ	6546
NEW MEXICO JUNIOR COLLEGE	HOBBS	NM	8546
NEW YORK INSTITUTE OF TECH.	OLD WESTBURY	NY	547
NEW YORK UNIVERSITY	NEW YORK	NY	3547
NICHOLLS STATE UNIVERSITY	THIBODAUX	LA	6547
NICOLET VTAE DISTRICT	RHINELANDER	WI	548
NIAGARA UNIVERSITY	NIAGARA UNIV.	NY	5548
NORFOLK STATE UNIVERSITY	NORFOLK	VA	549
NORTH CENTRAL MICHIGAN COLLEGE	PETOSKEY	MI	550
NORTH CENTRAL TECHNICAL COLLEGE	WASAU	WI	552
NORTH DAKOTA STATE UNIV./FARGO	FARGO	ND	6552
NORTH FLORDIA JUNIOR COLLEGE	MADISON	FL	553
NORTH HARRIS COUNTY COLLEGE DISTRICT	HOUSTON	TX	554
NORTH IDAHO COLLEGE	COUER D'ALENE	ID	3554
NORTH IOWA AREA COMMUNITY COLLEGE	MASON CITY	IA	4554
NORTH ISLAND COLLEGE	COMOX	BC	5554
NORTH SEATTLE COMMUNITY COLLEGE	SEATTLE	WA	6554
NORTH SHORE COMMUNITY COLLEGE	BEVERLY	MA	7554
NORTH TEXAS STATE UNIVERSITY	DENTON	TX	555
NORTHEAST LOUISANA UNIVERSITY	MONROE	LA	5555
NORTHEAST TEXAS COMMUNITY COLLEGE	MT. PLEASANT	TX	3556
NORTHEAST WIS. VTAE DISTRICT	GREENBAY	WI	556
NORTHEAST IOWA TECHNICAL INST.	PEOSTA	IA	558
NORTHEASTERN A & M	MIAMI	OK	560
NORTHEASTERN JUNIOR COLLEGE	STERLING	CO	3560
NORTHEASTERN UNIVERSITY COLLEGE	BOSTON	MA	6560
NO. CA. TELECOMMUNICATIONS CONSORTIUM	SACRAMENTO	CA	1561
NORTHERN ESSEX COMMUNITY COLLEGE	HAVERHILL	MA	561
NORTHERN ILLINOIS UNIVERSITY	DEKALB	IL	5561
NORTHERN MICHIGAN UNIVERSITY	MARQUETTE	MI	562
NORTHERN NEVADA COMMUNITY COLLEGE	ELKO	NV	563
NORTHERN OKLAHOMA COLLEGE	TONKAWA	OK	564
NORTHERN VIRGINIA COMMUNITY COLLEGE	ANNANDALE	VA	565
NORTHWEST ALABAMA STATE JR. COLLEGE	PHIL CAMPBELL	AL	3566
NORTHWEST COMMUNITY COLLEGE/AK	NOME	AK	6566
NORTHWEST MISSISSIPPI JR. COLLEGE	SANATOBIA	MS	8566
NORTHWEST IOWA TECHNICAL COLLEGE	SHELDON	IO	567
NORTHWESTERN CONNECTICUT COMM. COLL.	WINSTED	CT	5567
NORTHWESTERN MICHIGAN COLLEGE	TRAVERSE CITY	MI	568

NORTHWESTERN OKLAHOMA STATE UNIVERSITY	ALVA	OK	572
NORWALK COMMUNITY COLLEGE	NORWALK	CT	574
OAKLAND COMMUNITY COLLEGE	BLOOMFIELD HILLS	MI	576
OAKTON COMMUNITY COLLEGE	DES PLAINS	IL	580
OCEAN COUNTY COLLEGE	TOMS RIVER	NJ	581
ODESSA COLLEGE	ODESSA	TX	582
OHIO STATE UNIVERSITY	COLUMBUS	OH	2582
OHIO UNIVERSITY	ATHENS	OH	3582
OHIO WESLEYAN	DELEWARE	OH	6582
OKALOOSA-WALTON JUNIOR COLLEGE	NICEVILLE	FL	583
OKLAHOMA CHRISTIAN COLLEGE	OKLAHOMA CITY	OK	584
OKLAHOMA CITY COMMUNITY COLLEGE	OKLAHOMA CITY	OK	588
OKLAHOMA HIGHER EDUCATION	MIDWEST CITY	OK	590
OKLAHOMA STATE UNIVERSITY	STILLWATER	OK	592
OKLAHOMA STATE U. TECHNICAL INST.	OKLAHOMA CITY	OK	596
OLD DOMINION UNIVERSITY	NORFOLK	VA	598
OLYMPIC COLLEGE	BREMERTON	WA	599
ONONDIAGA COMMUNITY COLLEGE	SYRACUSE	NY	5599
ORANGE COAST COLLEGE	COSTA MESA	CA	600
OREGON STATE UNIVERSITY	CORVALLIS	OR	601
OSWEGO BOCES	MEXICO	NY	602
OUR LADY OF HOLY CROSS COLLEGE	NEW ORLEANS	LA	603
OWENSBORO COMMUNITY COLLEGE	OWENSBORO	KY	5603
OXNARD COLLEGE	OXNARD	CA	604
PADUCAH COMMUNITY COLLEGE	PADUCAH	KY	606
PAINE COLLEGE	AUGUSTA	GA	5606
PALM BEACH JUNIOR COLLEGE	LAKE WORTH	FL	607
PALOMAR COLLEGE	SAN MARCOS	CA	608
PAMLICO TECHNICAL COLLEGE	GRANTSBORO	NC	612
PAN AMERICAN UNIVERSITY	EDINBURG	TX	613
PANOLA JUNIOR COLLEGE	CARTHAGE	TX	614
PARIS JUNIOR COLLEGE	PARIS	TX	615
PARKLAND COLLEGE	CHAMPAIGN	IL	616
PARKSBURG COMMUNITY COLLEGE	PARKERSBURG	WV	618
PASADNEA CITY COLLEGE	PASADENA	CA	620
PASCO-HERMANDO COMMUNITY COLLEGE	DALE CITY	FL	621
PAUL D. CAMP COMMUNITY COLLEGE	FRANKLIN	VA	3621
PENSACOLA JUNIOR COLLEGE	PENSACOLA	FL	622
PENNSYLVANIA STATE UNIVERSITY	UNIVERSITY PARK	PA	623
PERU STATE COLLEGE	PERU	NE	5623
PIEDMONT TECHNICAL COLLEGE	ROXBORO	NC	624
PIERCE COLLEGE	TACOMA	WA	625
PIKES PEAK COMMUNITY COLLEGE	COLORADO SPRINGS	CO	626
PIKEVILLE COLLEGE	PIKEVILLE	KY	5626
PIMA COMMUNITY COLLEGE	TUCSON	AZ	627
PINE MANOR COLLEGE	CHESTNUT HILL	MA	5627
PITT COMMUNITY COLLEGE	GREENVILLE	NC	628
PITTSBURG STATE UNIVERSITY	PITTSBURG	KS	629
POINT PARK COLLEGE	PITTSBURG	PA	5629
PORTLAND COMMUNITY COLLEGE	PORTLAND	OR	631
POTOMAC STATE COLLEGE	KEYSER	WV	5631
PRAIRIE STATE COLLEGE	CHICAGO HEIGHTS	IL	632
PRATT COMMUNITY COLLEGE	PRATT	KS	5632
PRINCE GEORGES COMMUNITY COLLEGE	LARGO	MD	634
PROVIDENCE COLLEGE	PROVIDENCE	RI	3634

PUEBLO COMMUNITY	PUEBLO	CO	6634
PUGET SOUND TELECOMM. CENTER	BELLEVUE	WA	635
PURDUE UNIVERSITY/CALUMET	HAMMOND	IN	3635
PURDUE UNVERSITY	WEST LAFAYETTE	IN	6635
RANCHO SANTIAGO COLLEGE	SANTA ANA	CA	636
RAND LAKE COLLEGE	INA	IL	640
RANDOLPH TECHNICAL COLLEGE	ASHEBORO	NC	644
RANGER JUNIOR COLLEGE	RANGER	TX	646
READING AREA COMMUNITY COLLEGE	READING	PA	3646
RED ROCKS COMMUNITY COLLEGE	GOLDEN	CO	6646
REGIS COLLEGE/CO	DENVER	CO	647
REND LAKE COLLEGE	INA	IL	5647
RICHLAND COMMUNITY COLLEGE	DECATUR	IL	648
RICHMOND TECHNICAL COLLEGE	HAMLET	NC	652
RICH MOUNTAIN COMMUNITY COLLEGE	MENA	AR	653
RIO GRANDE COLLEGE	RIO GRANDE	OH	5653
RIO SALADO COMMUNITY COLLEGE	PHOENIX	AZ	654
RIPON COLLEGE	RIPON	WI	655
RIVERSIDE CITY COLLEGE	RIVERSIDE	CA	656
ROANE STATE COMMUNITY COLLEGE	HARRIMAN	TN	658
ROANOKE-CHOWAN TECHNICAL COLLEGE	AHOSKIE	NC	670
ROBERT MORRIS COLLEGE/IL	CHRTHAGE	IL	671
ROBERTS WESLEYAN COLLEGE	ROCHESTER	NY	672
ROBESON TECHNICAL COLLEGE	LUMBERTON	NC	674
ROCHESTER COMMUNITY COLLEGE	ROCHESTER	MN	675
ROCHESTER INSTITUTE OF TECHNOLOGY	ROCHESTER	NY	676
ROCK VALLEY COLLEGE	ROCKFORD	IL	678
ROCKINGHAM COMMUNITY COLLEGE	WENTWORTH	NC	682
ROCKLAND COMMUNITY COLLEGE	SUFFERN	NY	683
ROCKY MOUNTAIN COLLEGE	BILLINGS	MT	684
ROGERS STATE COLLEGE	CLAREMORE	OK	686
ROGUE COMMUNITY COLLEGE	GRANTS PASS	OR	690
ROSE STATE COLLEGE	MIDWEST CITY	OK	700
ROWAN TECHNICAL COLLEGE	SALISBURY	NC	704
RUSSELL SAGE COLLEGE	ALBANY	NY	705
SACRAMENTO CITY COLLEGE	SACRAMENTO	CA	706
SADDLEBACK COLLEGE	MISSION VIEJO	CA	708
SAGINAW VALLEY STATE COLLEGE	UNIVERSITY CEN.	MI	5708
SAINT JOHNS RIVER COMMUNITY COLLEGE	PALATKA	FL	709
SAINT PETERSBURG JUNIOR COLEGE	SAINT PETERSBURG	FL	711
SALEM SATE COLLEGE	SALEM	MA	5711
SAM HOUSTON STATE UNIVERSITY	HUNTSVILLE	TX	710
SAMPSON TECHNICAL COLLEGE	CLINTON	NC	712
SAN ANTONIO COLLEGE	SAN ANTONIO	TX	714
SAN BERNARDINO VALLEY COLLEGE	SAN BERNARDINO	CA	716
SAN DIEGO CITY COLLEGE	SAN DIEGO	CA	720
SAN DIEGO MIRAMAR COLLEGE	SAN DIEGO	CA	724
SANGAMON STATE UNIVERSITY	SPRINGFIELD	IL	725
SAN JACINTO COLLEGE	PASADENA	TX	726
SAN JOAQUIN DELTA COLLEGE	STOCKTON	CA	727
SANDHILLS COMMUNITY COLLEGE	CARTHAGE	NC	728
SANDHILLS COMMUNITY COLLEGE	PINEHURST	NC	3728
SANTA ANA COLLEGE	SANTA ANA	CA	6728
SANTA FE COMMUNITY COLLEGE	GAINES	FL	729
SANTA FE COMMUNITY COLLEGE/NM	SANTA FE	NM	730

SARAH LAWRENCE COLLEGE	BRONXVILLE	NY	731
SAVANNAH STATE COLLEGE	SAVANNAH	GA	5731
SCHOOLCRAFT COLLEGE	LIVONIA	MI	732
SEATTLE CENTRAL COMM. COLLEGE	SEATTLE	WA	734
SEMINOLE COMMUNITY COLLEGE	SANFORD	FL	735
SEMINOLE JUNIOR COLLEGE	SEMINOLE	OK	736
SHAW UNIVERSITY	RALEIGH	NC	738
SHEPHERD COLLEGE	SHEPHERDSTOWN	WV	2738
SHERIDAN COLLEGE	SHERIDAN	WY	4738
SHELBY STATE COMM. COLLEGE	MEMPHIS	TN	6738
SHELTON STATE COMMUNITY COLLEGE	TUSCALOOSA	AL	8738
SIERRA COMMUNITY COLLEGE	ROCKLIN	CA	739
SIMON'S ROCK OF BARD COLLEGE	GREAT BARRINGTON	MA	2739
SINCLAIR COMMUNITY COLLEGE	DAYTON	OH	4739
SKAGIT VALLEY COLLEGE	MT. VERNOR	WA	6739
SOJOURNER-DOUGLAS COLLEGE	BALTIMORE	MD	8739
SOLANO COLLEGE	SUISUN CITY	CA	740
SOMERSET COUNTY COLLEGE	SOMERVILLE	NJ	742
SOUK VALLEY COMMUNITY COLLEGE	DIXON	IL	744
SOUTH CENTRAL COMMUNITY COLLEGE	NEW HAVEN	CT	5744
SOUTH FLORDIA COMMUNITY COLLEGE	AVON PARK	FL	745
SOUTH PLAINS COLLEGE	LEVELLAND	TX	746
SOUTHEAST COMMUNITY COLLEGE	CUMBERLAND	KY	5746
SOUTHEASTERN COMMUNITY COLLEGE	WEST BURLINGTON	IA	7746
SOUTHEASTERN COMMUNITY COLLEGE	WHITEVILLE	NC	748
SOUTHEASTERN LOUISIANA UNIVERSITY	HAMMOND	LA	2747
SOUTHEASTERN MASSACHUSETTS UNIV.	NORTH DARTMOUTH	MA	4747
SOUTHERN ARKANSAS UNIV/TECHNICAL	EAST CAMDEN	AR	6747
SOUTHERN CALIFORNIA CONSORTIUM	CYPRESS	CA	8747
SOUTHERN COLLEGE	ORLANDO	FL	747
SOUTHERN METHODIST UNIVERSITY	DALLAS	TX	749
SOUTHERN OREGON STATE COLL.	ASHLAND	OR	2748
SOUTHERN PRAIRIE AREA ED. AGENCY	OTTUMWA	IA	4748
SOUTHERN UNIVERSITY/BATON ROUGE	BATON ROUGE	LA	6748
SOUTHERN UNIVERSITY AT NEW ORLEANS	NEW ORLEANS	LA	8748
SOUTHERN UTAH STATE COLLEGE	CEDAR CITY	UT	2749
SOUTHERN WEST VIRGINIA COMM. COLLEGE	LOGAN	WV	4749
SOUTHWEST MISSISSIPPI JR. COLLEGE	SUMMIT	MS	6749
SOUTHWEST MISSOURI STATE UNIVERSITY	SPRINGFIELD	MO	8749
SOUTHWEST STATE UNIVERSITY	MARSHALL	MN	5750
SOUTHWEST TEXAS JUNIOR COLLEGE	UVALDE	TX	750
SOUTHWEST TEXAS STATE UNIVERSITY	SAN MARCOS	TX	751
SOUTHWEST WIS. VTAE DISTRICT	FENNIMORE	WI	752
SOUTHWESTERN COMMUNITY COLLEGE	CRESTON	IA	754
SOUTHWESTERN COLLEGE	CHULA VISTA	CA	756
SOUTHWESTERN MICHIGAN COLLEGE	DOWAGIC	MI	759
SOUTHWESTERN OKLAHOMA STATE UNIVERSITY	WEATHERFORD	OK	760
SOUTHWESTERN OREGON COMMUNITY COLLEGE	COOS BAY	OR	761
SOUTHWESTERN TECHNICAL COLLEGE	SYLVA	NC	764
SPALDING COLLEGE	LOUISVILLE	KY	765
SPOKANE FALLS COMMUNITY COLLEGE	SPOKANE	WA	766
SPRING ARBOR COLLEGE	SPRING ARBOR	MI	769
SPRINGFIELD TECH. COMM. COLL.	SPRINGFIELD	MA	770
JAMES SPRUNT TECH. COLLEGE	KEANSVILLE	NC	3770
ST. CATHERINE COLLEGE	ST. CATHERINE	KY	6770

ST. CLAIR COMMUNITY COLLEGE	PORT HURON	MI	771
ST. CLOUD STATE UNIVERSITY	ST. CLOUD	MN	3771
ST. JOHN FISHER COLLEGE	ROCHESTER	NY	6771
ST. JOHN'S UNIVERSITY/MN	CLOOEGEVILLE	MN	8771
ST. LOUIS COMMUNITY COLLEGE	ST. LOUIS	MO	772
ST. LOUIS COMM. COLL/FLORISSANT	ST. LOUIS	MO	5772
ST. PETER'S COLLEGE	JERSEY CITY	NJ	774
ST. PHILLIP'S COLLEGE	SAN ANTONIO	TX	5775
STANLY TECHNICAL COLLEGE	ALBEMARLE	NC	776
STATE TECHN INST./KNOXVILLE	KNOXVILLE	TN	777
STATE UNIVERSITY COLLEGE AT BUFFALO	BUFFALO	NY	5777
STEPHEN F. AUSTIN STATE UNIVERSITY	NACGODOCHES	TX	778
STONEHILL COLLEGE	NORTH EASTON	MA	3778
SUFFOLK UNIVERSITY	BOSTON	MA	6778
SUFFOLK COMMUNITY COLLEGE	SELDEN	NY	779
SUNY AT BUFFALO	BUFFALO	NY	3779
SUNY/BROCKPORT	BROCKPORT	NY	6779
SUNY/PLATTSBURG	PLATTSBURG	NY	8779
SURRY COMMUNITY COLLEGE	DOBSON	NC	780
SYRACUSE UNIVERSITY/UNIV. COLLEGE	SYRACUSE	NY	3780
TACOMA COMMUNITY COLLEGE	TACOMA	WA	6780
TANANA VALLEY COMMUNITY COLLEGE	FAIRBANKS	AK	8780
TALLAHASSEE COMMUNITY COLLEGE	TALLAHASSEE	FL	781
TARRANT COUNTY JUNIOR COLLEGE	FT. WORTH	TX	782
TECHNICAL COLLEGE OF ALAMANCE	HAW RIVER	NC	784
TEMPLE JUNIOR COLLEGE	TEMPLE	TX	785
TENNESSEE STATE BOARD OF REGENTS	MURFREESBORO	TN	3785
TENNESSEE STATE UNIVERSITY	NASHVILLE	TN	5785
TENNESSEE TECH. UNIVERSITY	COOKEVILLE	TN	8785
TEXARKANA COMMUNITY COLLEGE	TEXARKANA	TX	786
TEXAS A & M UNIVERSITY SYSTEM	COLLEGE STATION	TX	789
TEXAS CHRISTEN UNIVERSITY	FT. WORTH	TX	790
TEXAS COLLEGE OF OSTEOPATHIC MEDICINE	FT. WORTH	TX	791
TEXAS CONSORT FOR ED. TELEVISION	MESQUITE	TX	792
TEXAS SOUTHERN UNIVERSITY	HOUSTON	TX	793
TEXAS SOUTHMOST COLLEGE	BROWNSVILLE	TX	794
TEXAS TECH UNIVERSITY	LUBBOCK	TX	787
THOMAS A. EDISON COLLEGE	HAMPTON	VA	5787
THORNTON COMMUNITY COLLEGE	SOUTH HOLLAND	IL	788
TIDEWATER COMMUNITY COLLEGE	PORTSMOUTH	VA	789
TOWSON STATE UNIVERSITY	BALTIMORE	MD	5789
TREATY OAK COMMUNITY COLLEGE	THE DALLES	OR	790
TREASURE VALLEY COMMUNITY COLLEGE	ONTARIO	OR	5790
TRENTON STATE COLLEGE	TRENTON	NJ	791
TRI-CITIES STATE TECHNICAL INST.	BLOUNTVILLE	TN	5791
TRI-COLLEGE COMMUNITY COLLEGE	MURPHY	NC	792
TRIDENT TECHNICAL COLLEGE	CHARLESTON	SC	794
TRINITY COLLEGE LIBRARY	HARTFORD	CT	795
TRINITY UNIVERSITY	SAN ANTONIO	TX	5795
TRITON COLLEGE	RIVER GROVE	IL	796
TROY STATE UNIV./MONTGOMERY	MONTGOMERY	AL	797
TRUCKEE MEADOWS COMMUNITY COLLEGE	RENO	NV	798
TULSA JUNIOR COLLEGE	TULSA	OK	800
TUNXIS COMMUNITY COLELGE	FARMINGTON	CT	5800
T.V. ONTARIO	TORONTO	ON	801

TYLER JUNIOR COLLEGE	TYLER	TX	802
ULBRICH OF CALIFORNIA	FRESNO	CA	803
UMPQUA COMMUNITY COLLEGE	ROSEBURG	OR	804
UNION COLLEGE/KY	BARBOURVILLE	KY	805
UNION COUNTY COLLEGE	CRANFORD	NJ	806
UNIVERSIYT OF ALABAMA/BIRMINGHAM	BIRMINGHAM	AL	807
UNIVERSITY OF ALASKA/FAIRBANKS	FAIRBANKS	AK	808
U. OF ALASKA/FAIRBANKS CABLE COLLEGE	FAIRBANKS	AK	5808
U. OF ALASKA/FAIRBANKS RURAL COLLEGE	FAIRBANKS	AK	6808
UNIVERSITY OF ALASKA INST. TELE.	ANCHORAGE	AK	809
UNIVERSITY OF ALASKA/RURAL ED.	ANCHORAGE	AK	811
UNIVERSITY OF ARKANSAS/LITTLE ROCK	LITTLE ROCK	AR	812
UNIVERSITY OF CHAPEL HILL	CHAPEL HILL	NC	835
UNIVERSITY OF CHARLESTON	CHARLESTON	WV	813
UNIVERSITY OF CINCINNATI	CINCINNATI	OH	814
UNIVERSITY OF COLORADO/BOULDER	BOULDER	CO	815
UNIVERSITY OF COLORADO/COLORADO SPG.	COLORADO SPRINGS	CO	816
UNIVERSITY OF COLORADO AT DENVER	DENVER	CO	2809
UNIVERSITY OF DUBUQUE	DUBUQUE	IA	817
UNIVERSITY OF GEORGIA	ATHENS	GA	818
UNIVERSITY OF HOUSTON	HOUSTON	TX	820
UNIVERSITY OF IDAHO	MOSCOW	ID	819
UNIVERSITY OF IOWA	IOWA CITY	IA	821
UNIVERSITY OF KANSAS	LAWRENCE	KS	822
UNIVERSITY OF KENTUCKY	LEXINGTON	KY	823
UNIVERSITY OF LOUISVILLE	LOUISVILLE	KY	824
UNIVERSITY OF MAINE	AUGUSTA	ME	840
UNIVERSITY OF MAINE/ORONO	ORONO	ME	825
UNIVERSITY OF MARYLAND/ASIAN DIV.	SAN FRANCISCO	CA	826
UNIVERSITY OF MARYLAND/OPEN UNIV.	COLLEGE PARK	MD	827
UNIVERSIYT OF MICHIGAN/FLINT	FLINT	MI	828
UNIVERSITY OF MICHIGAN/DEARBORN	DEARBORN	MI	829
UNIVERSITY OF MID-AMERICA	GRAND FORKS	ND	830
UNIVERSITY OF MINNESOTA	MINNEALPOLIS	MN	831
UNIVERSITY OF MISSISSIPPI	UNIVERSITY	MS	832
UNIVERSIYT OF MISSOURI	COLUMBIA	MO	833
UNIVERSITY OF MISSOURI/KANSAS CITY	KANSAS CITY	MO	834
UNIVERSITY OF MISSOURI/ROLL	ROLLA	MO	837
UNIVERSITY OF MISSOURIT/ST. LOUIS	ST. LOUIS	MO	5837
UNIVERSITY OF MONTANA	MISSOULA	MT	838
UNIVERSITY OF NEBRASKA/LINCOLN	LINCOLN	NE	839
UNIVERSITY OF NEVADA	RENO	NV	840
UNIVERSITY OF NEVADA/LAS VEGAS	LAS VEGAS	NV	842
UNIVERSITY OF NEW MEXICO	ALBUQUERQUE	NM	843
UNIVERSITY OF NORTH DAKOTA	GRAND FOLKS	ND	846
UNIVERSITY OF NORTH FLORIDA	JACKSONVILLE	FL	847
UNIVERSTIY OF NORTH CAROLINA	CHAPEL HILL	NC	5847
UNIVERSITY OF NORTH CAROLINA	CHAROLOTTE	NC	848
UNIVERSITY OF NORTH CAROLINA	GREENSBORO	NC	836
UNIVERSITY OF NORTH CAROLINA	WILMINGTON	NC	849
UNIVERSITY OF NORTHERN COLORADO	GREENLY	CO	850
UNIVERSITY OF NORTHERN IOWA	CEDAR FALLS	IA	851
UNIVERSITY OF OKLAHOMA	NORMAN	OK	845
UNIVERSITY OF OREGON	EUGENE	OR	852
UNIVERSITY OF PITTSBURG	PITTSBURG	PA	853

UNIVERSITY OF PITTSBURG/BRADFORD	BRADFORD	PA	854
UNIVERSITY OF ROCHESTER	ROCHESTER	NY	855
UNIVERSITY OF SAINT THOMAS	HOUSTON	TX	856
UNIVERSITY OF SCIENCE & ARTS OF OK.	CHICKASHA	OK	860
UNIVERSITY OF SCRANTON	SCRANTON	PA	861
UNIVERSITY OF SOUTH CAROLINA	COLUMBIA	SC	862
UNIVERSITY OF SOUTH DAKOTA	VERMILLION	SD	863
UNIVERSITY OF SOUTH FLORIDA	TAMPA	FL	864
UNIVERSITY OF SOUTHERN COLORADO	PUEBLO	CO	865
UNIVERSITY OF SOUTHERN MISSISSIPPI	HATTIESBURG	MS	866
UNIVERSITY SYSTEM OF NEW HAMPSHIRE	DURHAM	NH	867
UNIVERSITY OF TENNESSEE/CHATTANOOGA	CHATTANOOGA	TN	868
UNIVERSITY OF TENNESSEE/KNOXVILLE	KNOXVILLE	TN	869
UNIVERSITY OF TEXAS AT ARLINGTON	ARLINGTON	TX	870
UNIVERSITY OF TEXAS AT AUSTIN	AUSTIN	TX	871
UNIVERSITY OF TEXAS AT DALLAS	RICHARDSON	TX	872
UNIVERSITY OF TEXAS AT EL PASO	EL PASO	TX	873
UNIVERSITY OF TEXAS AT SAN ANTONIO	SAN ANTONIO	TX	874
UNIVERSITY OF TEXAS AT TYLER	TYLER	TX	875
UNIVERSITY OF THE DIST. OF COLUMBIA	WASHINGTON	DC	3875
UNIVERSITY OF UTAH	SALT LAKE CITY	UT	6875
UNIVERSITY OF THE VIRGIN ISLANDS	ST. CROIX	VI	8875
UNIVERSITY OF WINDSOR	WINDSOR	ON	876
UNIVERSITY OF WISCONSIN CENTER	WAUKESHA	WI	3876
UNIVERSITY OF WISCONSIN/EAU CLAIRE	EAU CLAIRE	WI	5876
UNIVERSITY OF WISCONSIN/MADISON	MADISON	WI	7876
UNIVERSITY OF WISCONSIN/PLATTEVILLE	PLATTEVILLE	WI	8876
UNIVERSITY OF WISCONSIN/MILWAUKEE	MILWAUKEE	WI	9876
UNIVERSITY OF WISCONSIN/PARKSIDE	KENOSHA	WI	877
UNIVERSITY OF WISCONSON/STEVENS PT.	STEVENS POINT	WI	2877
UNIVERSITY OF WISCONSIN/STOUT	MENOMONIE	WI	4877
UNIVERSITY OF WISCONSIN/SUPERIOR	SUPERIOR	WI	6877
UNIVERSITY OF WYOMING	LARAMIE	WY	7877
UTAH TECHNICAL COLLEGE	SALT LAKE CITY	UT	8877
UTICA COLLEGE OF SYRACUSE UN.	UTICA	NY	9877
VALENCIA COMMUNITY COLLEGE	ORLANDO	FL	878
VALLEY CITY/STATE UNIV OF N. DAKOTA	VALLEY CITY	ND	879
VANCE-GRANVILLE COMMUNITY COLLEGE	HENDERSON	NC	880
VENTURA COLLEGE	VENTURA	CA	884
VERNON REGIONAL JUNIOR COLLEGE	VERNON	TX	886
VICTOR VALLEY COMMUNITY COLLEGE	VICTORVILLE	CA	888
VICTORIA COLLEGE	VICTORIA	TX	890
VILLANOVA	VILLANOVA	PA	5890
VINCENESS UNIVERSITY	VINCENNES	IN	891
VIRGINIA COMMONWEALTH UNIV.	RICHMOND	VA	3891
VIRGINIA TIDEWATER CONSTORTIUM	NORFOLK	VA	6891
VISTA COLLEGE	BERKELEY	CA	892
VTAE DISTRICT ONE	EAU CLAIRE	WI	896
WAKE TECHNICAL COLLEGE	RALEIGH	NC	900
WALTERS STATE COMMUNITY COLLEGE	MORRISTOWN	TN	901
WARREN COUNTY COMMUNITY COLLEGE	WASHINGTON	NJ	902
WASHBURN	TOPEKA	KA	903
WASHINGTON STATE UNIVERSITY	PULLMAN	WA	5903
WASHTENAW COMMUNITY COLLEGE	ANN ARBOR	MI	904
WAUBONSEE COMMUNITY COLLEGE	SUGAR GROVE	IL	906

WAUKESHA CO. AREA VTAE DIST.	PEWAUKEE	WI	908
WAYNE COMMUNITY COLLEGE	GOLDSBORO	NC	912
WAYNE COUNTY COMMUNITY COLLEGE	DETROIT	MI	913
WAYNE STATE UNIVERSITY	DETROIT	MI	5913
WEATHERFORD COLLEGE	WEATHERFORD	TX	914
WEBER STATE COLLEGE	OGDEN	UT	915
WEST LOS ANGELES COLLEGE	CULVER CITY	CA	916
WEST SHORE COMMUNITY COLLEGE	SCOTVILLE	MI	917
WEST TEXAS STATE UNIVERSITY	CANYON	TX	918
WEST VALLEY COLLEGE	SARATOGA	CA	920
WESTARK COMMUNITY COLLEGE	FT. SMITH	AR	924
WESTCHESTER COMMUNITY COLLEGE	VALHALLA	NY	925
WESTHILLS COMMUNITY COLLEGE	COALINGA	CA	926
WESTMINSTER COLLEGE/PA	NEW WILMINGTON	PA	927
WEST VALLEY COLLEGE	SARATOGA	CA	3927
WESTERN CAROLINA UNIVERSITY	CULLOWHEE	NC	6927
WESTERN ILLINOIS UNIVERSITY	MACOMB	IL	928
WESTERN IOWA TECHNICAL COMM. COLL.	SIOUX CITY	IA	929
WESTERN KENTUCKY UNIVERSITY	BOWLING GREEN	KY	930
WESTERN MICHIGAN UNIVERSITY	KALAMAZOO	MI	931
WESTERN NEVADA COMMUNITY COLLEGE	CARSON CITY	NV	5931
WESTERN OKLAHOMA STATE COLLEGE	ALTUS	OK	932
WESTERN OREGON STATE COLLEGE	MONMOUTH	OR	934
WESTERN PIEDMONT COMMUNITY COLLEGE	MORGANTON	NC	936
WESTERN TECHNICAL COMMUNITY COLLEGE	SCOTTSBLUFF	NE	937
WESTERN TEXAS COLLEGE	SNYDER	TX	938
WESTERN WASHINGTON UNIVERSITY	BELLINHGAM	WA	939
WESTERN WIS. VTAE DISTRICT	LA CROSSE	WI	940
WEST LIBERTY STATE COLLEGE	WEST LIBERTY	WV	3940
WEST VIRGINIA HEITV	MORGANTOWN	WV	6940
WEST VIRGINIA INST. OF TECH.	MONTGOMERY	WV	941
WEST VIRGINIA STATE COLLEGE	INSTITUTE	WV	3941
WEST VIRGINIA UNIVERSITY	MORGANTOWN	WV	6941
WHARTON COUNTY JUNIOR COLLEGE	WHARTON	TX	942
WHEATON COLLEGE/IL	WHEATON	IL	2942
WHEELING COLLEGE	WHEELING	WV	6942
WHITWORTH COLLEGE	SPOKANE	WA	943
WICHITA STATE UNIVERSITY	WICHITA	KS	3943
WIDENER UNIVERSITY	CHESTER	PA	6943
WILKES COMMUNITY COLLEGE	WILKESBORO	NC	944
WILLIAM CAREY COLLEGE	HATTIESBURG	MS	945
WILLIAM JEWELL COLLEGE	LIBERTY	MO	946
WILLIAM RAINEY HARPER COLLEGE	PALATINE	IL	948
WILSON COLLEGE	CHAMBERSBRUG	PA	950
WILSON COUNTY TECHNICAL COLLEGE	WILSON	NC	952
WINONA STATE UNIVERSITY	WINONA	MN	954
WISCONSIN BOARD OF VTAE	MADISON	WI	956
WISCONSIN CEN / PSEC	MADISON	WI	958
WISCONSIN INDIANHEAD VTAE DISTRICT	SHELL LAKE	WI	960
WRIGHT STATE UNIVERSITY	DAYTON	OH	970
XAVIER UNIVERSITY OF LOUISIANA	NEW ORLEANS	LA	975
YAKIMA VALLEY COMMUNITY COLLEGE	YAKIMA	WA	980
YORK COLLEGE OF PENNSYLVANIA	YORK	PA	985
YUBA COLLEGE	MARYSVILLE	CA	990
ZZZ UPDATED: AUGUST, 1988			

B. SEMESTER/QUARTER

For which semester is the data being reported? One separate Input Sheet "A" is needed for each semester.

Code #8 is for flex-entry/flex exit courses which must begin and end within a single semester.

Code #9 is for open enrollment programs (flex-entry/flex-exit) which do not fall within a single semester; i.e. student may register in October (fall semester) but complete the course in March (spring semester).

SEMESTER SYSTEM:
1=FALL
2=SPRING
3=SUMMER

QUARTER SYSTEM:
4=1ST QUARTER
5=2ND
6=3RD
7=4TH

8=Flex-entry/flex-exit within a single semester

9=Flex-entry/flex-exit courses which may be within two or more semesters

C. YEAR

Enter the last two digits of the calendar year data is being reported for. If the semester is in two years, enter the year in which it began.

D. NUMBER OF CONSORTIA MEMBERSHIPS:

How many consortia or organizations does your institution belong to that are involved with the instructional uses of telecommunications? See item E below for a partial list of consortia and organizations.

E. MOST IMPORTANT CONSORTIUM:

For your institution what is the name of the most important consortium that it belongs to which is concerned with issues involving instructional uses of telecommunications systems?

CODES:

3	Arkansas College Consortium
5	Bay Area Community College TV Consortium
10	Central Educational Network
20	Eastern Educational Consortium
25	Educational Teleconsortium of Michigan
30	Florida Community College TV Consortium
40	Higher Education Telecommunications Association of Oklahoma
50	Instructional Telecommunications Consortium/AACJC
51	International University Consortium
53	KAPSET (Kansas Association for Post Secondary Ed. Tv.)
55	Knowledge Network, University of British Columbia
57	KYCHE Telecommunications Consortium
58	Louisiana Educational Consortium
60	Maryland College of the Air
63	Nebraska Education Telecommunications Consortium of Higher Ed.
65	North Carolina Consortium for Instructional Telecommunications
67	Northern California Telecommunications Consortium
69	Northern Illinois Learning Resources Cooperative
74	Ohio Post Secondary Telecommunications Council
75	Oregon Community College Television Consortium
80	Southern California Consortium for Com. Col. TV
84	Southern Michigan Television Educational Consortium
88	Texas consortium for Educational Telecommunications
90	Washington State Telecommunications Consortium (Puget Sound)
92	West Virginia Higher Education Instructional TV
95	Wisconsin Board of Vocational, Technical, and Adult Education

F. HIGHEST DEGREE OFFERED BY THE INSTITUTION

1=TWO YEAR ACADEMIC ONLY
2=TWO YEAR ACADEMIC AND VOC./TECH.
3=TWO YEAR VOC./TECH. ONLY
4=BACH./MASTERS
5=MASTERS/PH.D. ONLY
6=PH.D. (ALL LEVELS)

G. TELECOURSE NAME:

This item requests the name given the telecourse by its producer. An example is the telecourse "Understanding Human Behavior." Enter the name on the blank line of the Data Input Sheet B if it is not on the list below.

TELECOURSE NAME	PRODUCER	CODE
A VOUS LA FRANCE	FILMS, INC	75
ACCOUNTING I	UNIVERSITY OF MID-AMERICA	100
ACCOUNTING II	UNIVERSITY OF MID-AMERICA	150
ACCOUNTING PRINCIPLES	KIRKWOOD COMMUNITY COLLEGE	200
ACCOUNTING, INTRODUCTION TO	PALOMAR COLLEGE	250
ADULT YEARS	INTERNATIONAL U. CON.	270
ADVANCES IN INSTRUCTION I	COLORADO STATE U.	272
ADVANCES IN INSTRUCTION II	COLORADO STATE U.	273
AGE OF ENLIGHTENMENT	INTERNATIONAL U. CONSORTIUM	275
AFRICAN HISTORY AND CULTURE	WETA AND THE BBC	300
AFRICANS, THE	ANNENBERG/CPB	325
AMERICA	MIAMI-DADE COMMUNITY COL.	350
AMERICA: THE SECOND CENTURY	DALLAS COUNTY COM. COL. D.	400
AMERICAN ADVENTURE	DALLAS COUNTY COM. COL. D.	425
AMERICAN BUSINESS HISTORY	U. OF MINNESOTA/U MID-AMER.	450
AMERICAN ECONOMY	WFVTAE/MATC	475
AMERICAN GOVERNMENT I	DALLAS COUNTY COM. COL. DIS.	490
AMERICAN GOVERNMENT II	DALLAS COUNTY COM. COL. DIS.	491
AMERICAN GOVERNMENT SURVEY	DALLAS COUNTY COM. COL. DIS.	500
AMERICAN HISTORY III	SINCLAIR COMMUNITY COLLEGE	540
AMERICAN SOUTH COMES OF AGE	SCETV	575
AMERICAN STORY BEG. TO 1877, THE	DALLAS COUNTY COM. COL. DIS.	600
AMERICAN SHORT STORY, THE	COAST COM. COL. DIST.	650
AN INVITATION TO FLY	SAN MATEO COLLEGE	675
APPLIED COMMUNICATIONS SKILLS	WFVTAE/MATC	725
APPLIED SKETCHING TECHNIQUES	COAST COM. COL. DIST.	750
ART AMERICA	NORTHERN VIRGINIA CC	800
ART OF BEING HUMAN, THE	MIAMI-DADE COMMUNITY COLLEGE	850
ART OF CLEAR THINKING, THE	PALOMAR COLLEGE	900
ART OF THINKING, THE	USC COLL. OF CONT. ED	950
ASCENT OF MAN, THE	MIAMI-DADE COMMUNITY COL.	1000
ASTRONOMY	TIME-LIFE/FILMS INC.	1025
AVT LEARNING SYSTEM IN READING	MIAMI-DADE COMMUNITY COL.	1050
BASIC AC CIRCUITS	WIS. FOUND. FOR VOC./TECH.	1100
BASIC DC CIRCUITS	WIS. FOUND. FOR VOC./TECH.	1150
BASIC AUTOMOTIVE SYSTEMS	SINCLAIR COMMUNITY COLLEGE	1160
BASIC NURSING SKILLS	MIAMI-DADE COMMUNITY COL.	1300
BEGINNING ALGEBRA	MISSION COLLEGE	1450
BEGINNING ALGEBRA	PALOMAR COLLEGE	1500
BEGINNING CONVERSATIONAL SPANISH	PALOMAR COLLEGE	1550
BEGINNING PIANO: AN ADULT APPROACH	COAST COMMUNITY COLLEGE	1600
BEGINNING SPANISH I	FLORIDA C.C. JACKSONVILLE	1604
BEGINNING SPANISH II	FLORIDA C.C. JACKSONVILLE	1605
BEGINNING TYPING	ACCESS	1610
BEGINNINGS:HANDICAPPED CHILDREN	MARYLAND ITV/MD STATE	1650

BEHAVIORAL REVOLUTION, THE	PENNSYLVANIA STATE U.	1700
BERNSTEIN CONDUCTS BEETHOVEN		1725
BEYOND WORDS	ARIZONA STATE U./KAET	1735
BIOLOGY	WILKES COLLEGE	1745
BIOLOGY, INTRODUCTION TO	PALOMAR COLLEGE	1750
BRAIN, MIND AND BEHAVIOR	WNET-ANNENBERG/CPB PROJECT	1800
BULLS, BEARS AND WALL STREET	BAY AREA TV CONSORTIUM	1850
BUONGIORNO ITALIA	FILMS INC./BBC	1860
BUSINESS COMMUNICATIONS	KET AND TIME/LIFE	1875
BUSINESS COMMUNICATIONS	SINCLAIR COMMUNITY COLLEGE	1878
BUSINESS COMMUNICATIONS	COLUMBUS STATE COM. COL.	1879
BUSINESS ENGLISH I	LANE COMMUNITY COLLEGE	1890
BUSINESS FILE, THE (VIDEO)	DALLAS CO. COM. COL. DIST.	1900
BUSINESS LAW	PALOMAR COLLEGE	1950
BUSINESS LAW	SINCLAIR COMMUNITY COLLEGE	1960
BUSINESS LAW	MIAMI-DADE COM. COL. DIST.	2000
BUSINESS LAW I AND II	GOVERNORS STATE UNIVERSITY	2050
BUSINESS MATHEMATICS	PALOMAR COLLEGE	2100
BUSINESS OF MANAGEMENT, THE	SO. CAL. CONS. FOR COM. TV	2200
BUSINESS, INTRODUCTION TO	ACCESS AND ELECTRONIC PUB.	2250
BUSINESS OWNERSHIP ORIENTATION	SINCLAIR COMMUNITY COLLEGE	2260
CALCULUS I AND II	KNOWLEDGE NETWORK	2300
CAREER DECISIONS	LAKESHORE VTAE	2325
CAREER PROFILES	KIRKWOOD COLLEGE	2350
CAREER VIDEOTAPES	FULLERTON COLLEGE	2400
CASE STUDIES IN SMALL BUSINESS	UNIVERSITY OF MID-AMERICA	2450
CENTURY 21 SHORTHAND (VIDEO/AUDIO)	MIAMI-DADE COMMUNITY COL.	2500
CEREMONY OF INNOCENCE	USC COL. OF CONT. ED	2550
CHANGING FAMILY, THE	CATONSVILLE COMMUNITY COL.	2600
CHEMISTRY, INTRODUCTION TO	CATONSVILLE COMMUNITY COL.	2650
CHILD DEVELOPMENT	PALOMAR COLLEGE	2700
CHILD DEVELOPMENT	ACCESS AND ELECTRONIC PUB.	2750
CHILD DEVELOPMENT LAB	CCWC	2755
CHINESE, THE	SCETV	2760
CHINESE BRUSH PAINTING	COAST COMMUNITY COLLEGE	2765
CIVILIZATION	BBC	2775
CLASSIC THEATRE: THE HUMANITIES IN DR	COAST COMM. COLLE., UCSD	2800
COLLEGE ALGEBRA	PALOMAR COLLEGE	2850
COLLEGE ALGEBRA	EAST CENTRAL COLLEGE	2855
COLLEGE MATEMATICS	FLORIDA C. C./JACKSONVILLE	2905
COLLEGE MODULAR TYPING	KIRKWOOD COMMUNITY COLLEGE	2910
COLLEGE SUCCESS SKILLS	COLUMBUS STATE COM. COL.	2925
COMMUNICATING THROUGH LITERATURE	DALLAS CO. COM. COL. DIST.	2950
COMMUNICATIONS SKILLS I	WFVTAE/MATC	2959
COMMUNICATIONS SKILLS II	WFVTAE/MATC	2960
COMPLEXITY, MANAGEMENT AND CHANGE	INTERNATIONAL U. CON.	2990
COMPUTER PROGRAMMING, INTRODUCTIO TO	DE ANZA COLLEGE	3000
COMPUTER WORKS	SOUTHERN CA. CON.	3025
COMPUTERS IN EDUCATION	KNOWLEDGE NETWORK	3050
CONFLICT AND SOCIETY	INTERNATIONAL U. CON.	3075
CONTEMPORARY SOCIETY	MERCER COUNTY COM. COL.	3100
CONGRESS: WE THE PEOPLE	WETA-ANNENBERG/CPB PROJECT	3150
CONSTITUTION: THAT DEL. BAL., THE	MEDIA & SOCIETY OF COL. U	3200
CONSUMER EDUCATION	ACCESS AND ELECTRONIC PUB.	3250
CONSUMER LAW	SINCLAIR COMMUNITY COLLEGE	3275

CONTEM. MUSICAL STYLES:ROCK,POP, JAZZ	BAY AREA COMM. COL. TV CO.	3300
CONTEMPORARY HEALTH ISSUES	SO. CAL. CONS. FOR COM. TV	3350
CONTEMPORARY SOCIETY	MERCER COUNTY COMMUNITY C.	3400
CONVERSEMOS	PALOMAR COMMUNITY COLLEGE	3410
COSMOS	KCET	3425
CREATIVE YOGA	CATONSVILLE COMMUNITY COL.	3500
CRIMINOLOGY: IN THE NAME OF JUSTICE	WILFRED LAURIER UNIVERSITY	3550
CRITICAL THINKING	BAY AREA TV CONSORTIUM	3600
CULTURE OF ANCIENT EGYPT, THE	SAN DIEGO COMMUNITY COL.	3650
DC-AC CIRCUITS	WFVTAE	3675
DEALING IN DISCIPLINE	UNIVERSITY OF KENTUCKY	3700
DENTAL HYGIENE	MIAMI-DADE COMMUNITY COL.	3750
DESIGNING HOME INTERIORS	COAST COMM. COLLE. DIST.	3800
DEUTSCH DIREKT	PMI/FILMS, INC.	3825
DEVELOPING IMAGE, THE	NORTHERN VIRGINIA CC	3850
DIAGNOSIS & REMEDIATION IN MATH	KNOWLEDGE NETWORK	3900
DIGITAL ELECTRONICS	WIS. BOARD OF VOC. TECH.	3950
DRAMA: PLAY, PERFORMANCE, PERCETP.	MIAMI-DADE/BBC/B. O. U	4000
EARTH EXPLORED, THE	BBC OPEN UNIV./KRMA-TV	4050
EARTH & MAN	MARYLAND CENTER FOR PTV	4055
EARTH SEA & SKY	DALLAS CO. COM. COL. DIST.	4060
ECONOMICS I	CENTRAL PIEDMONT COM. COL.	4090
ECONOMICS II	CENTRAL PIEDMONT COM. COL	4091
ECONOMICS U$A	ED. FILM CENTER-AN./CPB PRO.	4100
EDUCATING THE EXCEPTIONAL CHILD	COLORADO STATE U.	4110
EFFECTIVE COMMUNICATIONS SKILLS	WFVTAE/MATC	4125
EFFECTIVE READING SKILLS	TELSTAR	4130
EFFECTIVE STUDY TECHNIQUES	KNOWLEDGE NETWORK	4150
ELECTRONICS I & II	WFVTAE	4175
ELEMENTARY ALGEBRA	FLORIDA C.C./JACKSONVILLE	4180
ENGLISH COMPOSITION	PENSACOLA JUNIOR COLLEGE	4185
ESL FOR SPANISH SPEAKERS	MERCER COUNTY COMMUNITY C.	4200
EXPLORING LANGUAGE	INTERNATIONAL U. CON.	4240
EYES ON THE PRIZE	CIVIL RIGHTS PROJECT, INC.	4250
FACES OF CULTURE	COAST COM. COL. DIST.	4290
FAMILY PORTRAIT	SO. CA. CONS. FOR COMM. TV	4300
FAMILY VIOLENCE	SINCLAIR COMMUNITY COLLEGE	4305
FINITE EARTH	PENNSYLVANIA STATE U.	4350
FITNESS FOR LIVING	MERCER COUNTY COMMUNITY CL.	4400
FOCUS ON SOCIETY	DALLAS CO. COM. COL. DIST.	4450
FOR ALL PRACTICAL PURPOSES	ANNENBERG/CPB PROJECT	4460
FOCUS ON WATERCOLOR	COAST COMMUNITY COL. DIST.	4455
FOOTSTEPS	U.S. DEPT OF EDUCATION	4475
FOUNDATIONS OF READING	KNOWLEDGE NETWORK	4550
FREE TO CHOOSE	WQLN/PUBLIC COMMUNICATIONS	4555
FREEHAND SKETCHING	COAST COMMUNITY COL. DIST.	4600
FRENCH IN ACTION	ANNENBERG/CPB-YALE U. ETC.	4625
FROM SOCRATES TO SARTRE	MARYLAND PTV	4650
FRONTIER OF ELECTRONICS	U. OF SOUTHERN CALIFORNIA	4700
FUNDAMENTAL CONCEPTS OF MATH	MAGNA SYSTEMS	4725
FUNDAMENTALS OF WRITTEN ENGLISH	CHEMEKETA COM. COL.	4730
GED ON TV	KENTUCKY ED. TV (KET)	4735
GENERAL ECONOMICS	SINCLAIR COMMUNITY COLLEGE	4740
GENERAL PSYCHOLOGY I	SINCLAIR COMMUNITY COLLEGE	4745
GENERAL PSYCHOLOGY II	SINCLAIR COMMUNITY COLLEGE	4746

GENERAL SOCIOLOGY I	SINCLAIR COMMUNITY COLLEGE	4747
GENERAL SOCIOLOGY II	SINCLAIR COMMUNITY COLLEGE	4748
GREAT PLAINS EXPERIENCE, THE	UNIVERSITY OF MID-AMERICA	4750
GROWING YEARS, THE	COAST COMMUNITY COL. DIST.	4800
HEALTH CARE ORGANIZATION	GOVERNORS STATE U.	4825
HEALTH SCIENCE	KNOWLEDGE NETWORK	4850
HERE'S TO YOUR HEALTH	DALLAS CO. COM. COL. DIST.	4875
HERITAGE: CIVILIZATION & THE JEWS	WNET	4900
HISTORY OF CHICAGO METRO. AREA	ACCESS	4925
HISTORY OF MEXICO, THE	LOS ANGELES COM. CO. DIST.	4950
HOME GARDENER, THE	COAST COMMUNITY COL. DIST.	5000
HOME GARDENING	ARIZONA STATE U./KAET	5015
HOW TO START A SMALL BUSINESS	ADFC	5025
HUMANITIES FORUM	FLORIDA C.C./JACKSONVILLE	5040
HUMANITIES THROUGH THE ARTS	COAST CC/CITY COL. CHICAGO	5050
IN OUR OWN IMAGE	DALLAS CO. COM. COL. DIST.	5100
INSIDE BUSINESS TODAY	MAGIC LANTERN	5150
INSIDE JAPAN	LOS ANGELES COMMUNITY COL.	5200
INTERACTION	MD ITV/MD. DEPT. OF ED	5250
INTERMEDIATE ALGEBRA	FLORIDA C.C./JACKSONVILLE	5275
INTERMEDIATE ALGEBRA	EAST CENTRAL COLLEGE	5280
INTRODUCING BIOLOGY	COAST COMMUNITY COL. DIST.	5300
INTRODUCTION TO ALGEBRA I	EAST CENTRAL COLLEGE	5303
INTRODUCTION TO ALGEBRA II	EAST CENTRAL COLLEGE	5304
INTRODUCTION TO AMERICAN GOVERNMENT	SINCLAIR COMMUNITY COLLEGE	5305
INTRODUCTION TO BUSINESS	SINCLAIR COMMUNITY COLLEGE	5310
INTRODUCTION TO BUSINESS	COLLEGE OF DUPAGE	5311
INTRODUCTION TO COMPUTER CONCEPTS	SINCLAIR COMMUNITY COLLEGE	5315
INTRODUCTION TO MATHEMATICS	MARYLAND CENTER FOR PTV	5330
INTRODUCTION TO MICROCOMPUTERS	ROCHESTER INSTITUTE OF TECH.	5335
INTRODUCTION TO PHILOSOPHY	U. OF DELAWARE	5340
INTRODUCTION TO POETRY	CLARK COMMUNITY COLLEGE	5345
INTRODUCTORY PSYCHOLOGY I & II	KNOWLEDGE NETWORK	5350
INVITATION TO FLY	SAN MATEO COMMUNITY COLLEGE	5375
JAPAN: THE LIVING TRADITION	UNIVERSITY OF MID-AMERICA	5400
JAZZ: AN AMERICAN CLASSIC	U. OF MINNESOTA	5450
JOB SEARCH TECHNIQUES	CLARK COMMUNITY COLLEGE	5470
JUVENILE DELINQUENCY	SINCLAIR COMMUNITY COLLEGE	5475
KEEP IT RUNNING	NORTHERN VIRGINIA C. C.	5500
KEYBOARDING:COMPUTERS & TYPEWRITERS	KIRKWOOD COLLEGE	5550
LIFE ON EARTH	BBC	5575
LITERATURE & COMPOSITION	KNOWLEDGE NETWORK	5600
LIVELY ARTS, THE	USC COLL. OF CONT. ED	5650
LIVES OF WOMEN THEN AND NOW	SADDLEBACK COLLEGE	5655
LIVING ENVIRONMENT, THE	DALLAS CO. COM. COL. DIST	5675
LIVING LIBRARY, THE	UNIVERSITY OF SOUTHERN CA.	5700
LIVING WITH DYING AND DEATH	SINCLAIR COMMUNITY COLLEGE	5710
LOGIC, INTRODUCTION TO	PALOMAR COLLEGE	5750
LONG SEARCH, THE	MIAMI-DADE COMMUNITY COL.	5800
LOOSENING GRIP:SURVEY OF ALCOHOL INF.	UNIVERSITY OF MID-AMERICA	5850
LOVE & PERSONAL GROWTH	SINCLAIR COMMUNITY COLLEGE	5870
MAJOR LIVING RELIGIONS OF THE WORLD	BAY AREA TV CONSORTIUM	5900
MAKING IT COUNT	BOEING COMPUTER SERV. CO.	5950
MAKING IT WORK	SO. CAROLINA ED. TV	6000
MANAGING FOR CHANGE	INTERNATIONAL U CON.	6015

MARKETING	COAST COM. COL. DIST.	6025
MARKETING I	SINCLAIR COMMUNITY COLLEGE	6030
MARKETING II	SINCLAIR COMMUNITY COLLEGE	6031
MARKETING PERSPECTIVES	MILWAUKEE AREA TECH. COL.	6050
MARRIAGE AND THE FAMILY	U. OF WISCONSIN/WHA RADIO	6100
MATHEMATICS FOR MODERN LIVING	MAGNA SYSTEMS, INC.	6150
MECHANICAL UNIVERSE, THE	CIT-ANNENBERG/CPB PROJECT	6200
MECHANICAL UNIVERSE & BEYOND, THE	CIT-ANNENBERG/CPB PROJECT	6250
MEDICAL TERMINOLOGY I	LANE COMMUNITY COLLEGE	6276
MEDICAL TERMINOLOGY II	LANE COMMUNITY COLLEGE	6277
MICROPROCESSORS	WIS. BOARD OF VOC. TECH.	6300
MIDDLE SCHOOL, THE	U. OF KENTUCKY	6325
MONEY PUZZLE, THE	MIAMI-DADE COMMUNITY COL.	6400
MONTANA, K. ROSS TOOLE'S	MONTANANS FOR QUALITY TV-MQTV	6425
MOVIE MILESTONES	BAY AREA TV CONSORTIUM	6450
MULTICULTURAL AND SPECIAL POPULATIONS	COLORADO STATE U.	6460
MUSIC APPRECIATION	VALENCIA COMMUNITY COLLEGE	6475
MUSIC APPRECIATION	EAST CENTRAL COLLEGE	6476
MUSIC IN TIME	FILMS FOR THE HUMANITIES	6490
MUSIC THEORY	MAGIC LANTERN	6500
MUSIC THROUGH TIME	FILMS FOR THE HUMANITIES	6505
MYTHOLOGY IN LITERATURE	SINCLAIR COMMUNITY COLLEGE	6510
NEEDLECRAFT	COAST COMM. COLLEGE	6550
NEW LITERACY, THE	SO. CA. CON.-ANNENBERG/CPB	6600
NEXT STEPS WITH COMPUTERS IN CLASS	WHA-TV & U. OF WISCONSIN	6650
NIKKEI-JIN/THE JAPANESE-AMER.	LOS ANGELES COMMUNITY COL.	6700
NURSING ASSISTANT	LAKESHORE VTAE	6725
NORTHERN EUROPEAN HUMANITIES:	FLORIDA JUNIOR COLLEGE	6750
NUCLEAR AGE, THE	WGBH-ANNENBERG/CPB PROJECT	6775
NUTRITION	GOVERNORS STATE UNIVERSITY	6800
OCEANUS:THE MARINE ENVIRONMENT	SO. CA. CONS. FOR COM. TV	6850
OFFICE PROCEDURES	ACCESS	6875
ON-THE-JOB-SUPERVISING	MAUI COMMUNITY COLLEGE	6900
ON WARFARE	ACCESS	6925
OUT OF THE FIERY FURNACE:	OPUS FILMS & PENN. STATE U	7000
PEOPLE & ORGANIZATIONS	INTERNATIONAL U. CON.	7040
PERSONAL FINANCE & MONEY MGT.	SO. CALIFORNIA CONSORTIUM	7050
PERSONAL LAW	SINCLAIR COMMUNITY COLLEGE	7075
PESTS, PESTICIDES AND SAFETY	UNIVERSITY OF MID-AMERICA	7100
PHILOSOPHY, INTRODUCTION TO	FLORIDA JUNIOR COLLEGE	7150
PHOTOGRAPHIC VISION	COAST COM. COL. DIST.	7175
PHYSICAL FITNESS/FIGURE CONTROL	PALOMAR COLLEGE	7200
PLANET EARTH	WQED-ANNENBERG/CPB PROJECT	7250
PREPARATORY MATHEMATICS	CATONSVILLE COM. COL.	7328
PRESCRIPTION FOR LIVING	U. OF SOUTHERN CALIFORNIA	7350
PRIME TIME FOR PARENTS	WIS. BOARD OF VOC. TECH.	7400
PRINCIPLES OF ACCOUNTING	DCCCD/PENN STATE	7410
PRINCIPLES OF ECONOMICS I	SINCLAIR COMMUNITY COLLEGE	7412
PRINCIPLES OF ECONOMICS II	SINCLAIR COMMUNITY COLLEGE	7413
PRINCIPLES OF MARKETING	WESTERN ILLINOIS U.	7415
PROBATION AND PAROLE	SINCLAIR COMMUNITY COLLEGE	7418
PROFIT, PRODUCTIVITY	SINCLAIR COMMUNITY COLLEGE	7420
PROGRAMMING FOR MICROCOMPUTERS	INDIANA UNIVERSITY	7425
PROGRAMMING FOR THE GIFTED	U. OF WISCONSIN-EXTENSION	7450
PROJECT UNIVERSE	COAST COMMUNITY COL. DIST.	7500

PROMOTION	COLUMBUS STATE COM. COL.	7525
PSYCHOLOGY OF HUMAN RELATIONS	MILWAUKEE AREA TECH. COL.	7550
PSYCHOLOGY, INTRODUCTION TO	U. OF WISCONSIN	7600
QUANTITATIVE ANALYSIS	CATONSVILLE COMMUNITY COL.	7650
QUEST FOR FOOD, THE	PENNSYLVANIA STATE U.	7700
READY, WILLING AND ABLE	NORTH CENTRAL VTAE	7725
REAL ESTATE PRINCIPLES	CATONSIVLLE COMMUNITY COL.	7750
REAL ESTATE PRINCIPLES	COLLEGE OF SAN MATEO	7751
RELATED SERVICES IN THE PUBLIC SCHOOLS	COLORADO STATE U.	7770
RELIGIOUS QUEST	INTERNATIONAL U. CON.	7775
RHYTHMICAL EXERCISES	PALOMAR COLLEGE ED. TV	7800
ROOTS	MIAMI-DADE COMMUNITY COL.	7850
RHYTHMICAL EXERCISES	PALOMAR COLLEGE	7900
SCIENCE & CULTURE IN WESTERN TRADTION	COAST/SCETV	7925
SEWING POWER	COAST COMMUNITY COLLE.	7950
SHAKESPEARE	BAY AREA TV CONSORTIUM	8000
SHAKESPEARE HOUR	PBS	8025
SMALL BUSINESS MANAGEMENT	RIO SALADO COMMUNITY COL.	8150
SOCIAL PROBLEMS	(COMBINATION OF PROGRAMS)	8175
SOCIAL PROBLEMS	SINCLAIR COMMUNITY COLLEGE	8176
SOCIAL SCIENCE I	ACCESS	8275
SOCIAL SCIENCE II	ACCESS	8276
SOCIAL WELFARE, INTRODUCTION TO	WILFRED LAURIER UNIVERSITY	8300
SPEED READING	COLLEGE OF MARIN	8400
SPOONFUL OF LOVIN'	AITV	8440
STARTING A BUSINESS:ENTREPREN.	MAGIC LANTERN	8450
STORY OF ENGLISH, THE	MACCNEIL-LEHRER-GAN./BBC	8500
STRESS MANAGEMENT	SINCLAIR COMMUNITY COLLEGE	8515
STUDY SKILLS	TELSTAR	8525
SUBSTANCE ABUSE: CURRENT CONCEPTS	GOVERNORS STATE UNIVERSITY	8550
SURVIVAL (ELEMENTARY)SPANISH (V/A)	MIAMI-DADE COMMUNITY COL.	8600
SYSTEMS ORGANIZATION AND MANAGEMENT	INTERNATIONAL U. CON.	8625
SYSTEMS PERFORMANCE	INTERNAITONAL U. CON.	8627
TAKE CHARGE	USC/ KNBC-TV LOS ANGELES	8650
TEACHING READING COMPOSITION	U. OF WISCONSIN	8675
TEACHING STUDENTS WITH SPECIAL NEEDS	MARYLAND ITV	8700
TEACHING WRITING: A PROCESS APPROACH	MARYLAND ITV	8750
THEORIES AND CONCEPTS IN NURSING	KNOWLEDGE NETWORK	8800
THERE'S MORE TO BUSINESS	MAGIC LANTERN	8850
THROUGH THE GENETIC MAZE	PENNSYLVANIA STATE U.	8900
TODAY'S BIOLOGICAL REVOLUTION	USC COLL. OF CONT. ED	8950
TOPIC: MUSIC	NORTHERN VIRGINIA CC	9000
TOPICS IN SMALL BUSINESS MGT.	NORTHERN VIRGINIA CC	9050
U.S. HISTORY TO 1876	CATONSVILLE COMMUNITY COL.	9100
U.S. HISTORY I	SINCLAIR COMMUNITY COLLEGE	9105
U.S. HISTORY II	SINCLAIR COMMUNITY COLLEGE	9106
UNDERSTANDING ADOLESCENCE	CENTRAL PIEDMONT COM.COL	9125
UNDERSTANDING HUMAN BEHAVIOR	COAST COMMUNITY COL. DIST.	9150
UNDERSTANDING SPACE AND TIME	U. OF CALIF./BBC OPEN U.	9200
VIETNAM: A TELEVISION HISTORY	WGBH	9225
VISUAL LITERACY	SINCLAIR COMMUNITY COLLEGE	9230
VOICES & VISIONS	ANNENBERG/CPB PROJECT	9240
VOYAGE: CHALLENGE & CHANGE IN CAREER	BAY AREA TV CONSORTIUM	9250
WAR	NATIONAL FIM BOARD CANADA	9275
WESTERN CIVILIZATION	BAY AREA TV CONSORTIUM	9300

WHEELS, KILNS, AND CLAY	U. OF SOUTHERN CALIFORNIA	9350
WHILE SOLDIERS FOUGHT	INTERNATIONAL U. CON.	9375
WORLD: A TELEVISION HISTORY, THE	SCETV	9390
WORLD FOOD PROBLEMS, INTRODUCTION TO	UNIVERSITY OF MID-AMERICA	9400
WORLD OF CINEMA, THE	CHICAGO CIY-WIDE COLLEGE	9425
WRITE COURSE, THE	DALLAS CO. COM. COL. DIST.	9500
WRITING FOR A REASON		9525
YOU AND THE LAW (VIDEO OR AUDIO)	COAST C. C./SADDLEBACK/KOCE	9550
ZARABANDA	BBC	9580
YOUR HEALTH - YOUR CHOICE:	ACCESS AND ELECTRONIC PUBL.	9600
UNIDENTIFIED		9999

ZZZ UPDATED: AUGUST, 1988

H. PRODUCER

Enter "0" if the reporting institution produced the telecourse either by itself or in cooperation with other institutions.. Enter "1" if was obtained from another source.

I. USE TEXT RECOMMENDED BY PRODUCER:

This item applies only to courses obtained from outside the institution. Most producers of telecourses recommend the use of a specific textbook and sometimes other materials. Does your institution use these materials?

CODES:
0 Producer did not recommend a textbook or study guide.
1 Institution used recommended textbook and study guide.
2 Institution used recommended textbook only.
3 Institution used recommended study guide only.
4 Institution used recommended reader.
9 Institution did not use recommended materials.

J. USE MATERIALS PRODUCED BY INSTITUTION:

For leased telecourses some institutions produce materials to either supplement or replace those developed by the producer. Please indicate if your institution produced any major materials. Do not include basic items such as exams and course syllabuses.

CODES:
0. Institution did not produce any materials.
1. Produced and used print materials - textbook and/or study guide.
2. Produced and used microcomputer software.
3. Produced and used video programs.
4. Produced and used other instructional materials.
5. Produced print materials and video programs.
9. Produced other important instructional materials - write on data input sheet.

K. LICENSED FROM:

What was the name of the entity from which the course was licensed or purchased? Enter "1" if your institution either produced the telecourse or bought into its production and does not have to license it. Enter the name of the licensing agency on the line on the Data Input Sheet if it is not on this list.

CODES:
1 College participated in production of course - owns rights to use.
40 Adult Learning Service
45 AGEE
46 Agency for Instructional Television
47 Annenberg/CPB Project

(Continued on next page.)

50	Bay Area Community College TV Consortium
75	Boeing Computer Services, Inc.
100	Central Educational Network
125	Coast Community College District
135	College of Dupage
140	Coronet Films
150	Dallas County Community College District
200	Eastern Educational Consortium
240	Educational Communications Board/Wisconsin
250	Educational Teleconsortium of Michigan
285	Films for the Humanities
290	Films Incorporated
300	Florida Community College TV Consortium
340	Governors State University
350	Great Plains National
400	Higher Education Telecommunications Association of Oklahoma
450	Indiana University
500	International University Consortium
515	Iowa Public Television
525	Kansas Association for Post Secondary Educational TV (KAPSET)
530	Kentucky Educational TV (KET)
540	Kirkwood Community College
550	KYCHE Telecommunications Consortium
560	Lionhart Video
575	Louisiana Public Broadcasting
590	Magna Systems
600	Maryland College of the Air
605	Maryland Public Television
608	Mercer County Community College
610	Miami-Dade Community College District
613	Mississippi Educational Television
617	Montanans for Quality Television - MQTV
620	National Audio Visual Center
625	National Narrowcast Service
640	New Jersey Community College Telecommunications Consortium
650	University of North Carolina Center for Public Television
669	Northern California Telecommunications Consortium
670	Northern Virginia Community College
690	Northern Illinois Learning Resources Cooperative
750	San Mateo College
775	South Carolina Educational TV
800	Southern California Consortium for Com. Col. TV
815	TELSTAR
820	Texas Educational Telecommunications Consortium
825	Time Life
850	TLC (Television Licensing Center)
900	TV Ontario
915	U.S. Office of Education
925	University of Delaware
930	Washington State Telecommunications Consortium (Puget Sound)
945	West Virginia Educational Instructional Television
950	Wisconsin Board of Vocational, Technical, and Adult Education
960	WQLN/Public Communications
999	PROGRAMS ACQUIRED FROM A NUMBER OF SOURCES

L. NUMBER OF PROGRAMS IN THE TELECOURSE:

Enter the actual number of separate instructional video programs in the telecourse which are delivered by telecommunications, e.g. 26 for a telecourse having 26 one-half video programs.

M. HOURS OF PROGRAMMING IN TELECOURSE:

Enter the total number of hours of instruction delivered by telecommunications systems for this course. Round number down to whole number if less than .50, round up to whole number if .50 or larger.

N. INSTITUTIONAL DEPARTMENT NAME OFFERING TELECOURSE:

Choose the department from the list below that offered credit for the telecourse. For example, if "Understanding Human Behavior" is offered as an introductory course in the psychology department, choose "Psychology" department. Enter the name of the department on the Data Input Sheet if it is not on the list below.

INSTRUCTIONAL DEPARTMENT	CODE
ACCOUNTING	10
ADMINISTRATIVE SCIENCE	15
ADVERTISING	20
AEROSPACE ENGINEERING AND ENGINEERING MECHANICS	70
AGRICULTURE	25
AIR CONDITIONING AND REFRIGERATION	30
AIR FORCE SCIENCE	40
ALLIED HEALTH SCIENCE	50
ANTHROPOLOGY	60
ART	80
ASTRONOMY	90
AUTOMATIVE TECHNOLOGY	100
AVIATION PILOT TRAINING	105
BANKING	110
BEHAVIORAL SCIENCE	115
BIOLOGY	120
BOTANY	130
BUILDING TRADES	140
BUSINESS	145
BUSINESS MANAGEMENT	150
BUSINESS OWNERSHIP	151
BUSINESS PERSONAL COMPUTERS	152
CHEMICAL ENGINEERING	160
CHEMISTRY	170
CHILD DEVELOPMENT	180
CIVIL ENGINEERING	190
CLASSICS	200
COMMERCIAL ART	210
COMMUNICATIONS	215
COMPUTER INFORMATION SYSTEMS	220

COMPUTER SCIENCE	230
CREDIT UNION MANAGEMENT	240
CRIMINAL JUSTICE	250
CURRICULUM AND INSTRUCTION	260
DANCE	270
DATA PROCESSING	275
DRAMA	280
EARLY CHILDHOOD STUDIES	285
ECONOMICS	290
EDUCATIONAL PSYCHOLOGY	300
EDUCATION	305
EDUCATION FOUNDATION	306
ELECTRICAL AND COMPUTER ENGINEERING	310
ELECTRONICS	315
ENGINEERING DESIGN GRAPHICS	320
ENGLISH	330
FINANCE	340
FOREIGN LANGUAGE	345
FRENCH	350
FRENCH AND ITALIAN	360
GENERAL BUSINESS	370
GENERAL EDUCATION	373
GEOGRAPHY	380
GEOLOGICAL SCIENCES	390
GEOLOGY	400
GERMAN	410
GERMANIC CIVILIZATION	420
GOVERNMENT	430
GRADUATE EDUCATION	435
HEALTH AND PHYSICAL EDUCATION	440
HISTORY	450
HOME ECONOMICS	460
HORTICULTURE	465
HUMAN DEVELOPMENT	470
HUMAN SERVICES	480
HUMANITIES	490
INSURANCE	500
JOURNALISM	510
LAND SURVEYING TECHNOLOGY	520
LAW	525
LONG-TERM HEALTH CARE ADMINISTRATION	530
MANAGEMENT	540
MARINE STUDIES	550
MARKETING	560
MARKETING ADMINISTRATION	570
MATHEMATICS	580
MECHANICAL ENGINEERING	590
MEDICAL LABORATORY TECHNOLOGY	600
MICROBIOLOGY	610
MID-MANAGEMENT	620
MILITARY SCIENCE	630
MUSIC	640
NATURAL SCIENCE	645
NAVAL SCIENCE	650
NURSING	660

NUTRITION	670
OCCUPATIONAL THERAPY ASSISTANT	680
OFFICE SYSTEMS TECHNOLOGY	690
ORIENTAL AND AFRICAN LANGUAGES AND LITERATURES	700
PARALLEL STUDIES	710
PARAMEDIC TECHNOLOGY	720
PETROLEUM ENGINEERING	730
PHARMACY	740
PHILOSOPHY	750
PHOTOGRAPHIC TECHNOLOGY	760
PHYSICAL AND HEALTH EDUCATION	770
PHYSICAL SCIENCE	780
PHYSICAL THERAPIST ASSISTANT	790
PHYSICS	810
POLITICAL SCIENCE	800
PRINTING (OFFSET)	820
PROPERTY TAX APPRAISAL	830
PSYCHOLOGY	840
PUBLIC AFFAIRS	850
QUALITY ASSURANCE TECHNOLOGY	860
RADIO-TELEVISION-FILM	870
RADIOLOGIC TECHNOLOGY	880
REAL ESTATE	890
RELIGION	900
SCIENCE	912
SLAVIC LANGUAGES	910
SOCIAL SCIENCE	915
SOCIAL WORK	920
SOCIOLOGY	930
SPANISH AND PORTUGUESE	940
SPANISH	950
SPECIAL EDUCATION	960
SPEECH	970
SURGICAL TECHNOLOGY	980
TECHNICAL COMMUNICATIONS	990
TECHNOLOGY	991
VOCATIONAL NURSING	993
WELDING	996
ZOOLOGY	998
ZZ NOT IDENTIFIED	999
ZZZ UPDATED: March, 1988	

O. NUMBER OF CREDIT HOURS:

Enter the number of college credit hours that your institution awarded for this telecourse. If the number is a fraction round it to the nearest whole number.

P. DOES THE TELECOURSE CARRY THE SAME CREDIT AS ITS ON-CAMPUS COUNTERPART?

1=Has the same number of credit hours
2=Has fewer credit hours
3=Has more credit hours
9=No on-campus counterpart

Q. THE SAME ACCEPTANCE AS ON-CAMPUS COUNTERPART:

Does your college treat this telecourse differently in any of the ways listed below? Sometimes a college may report these courses differently either on transcripts or limit the number of hours taken by telecommunications systems.

CODES:
0=No difference.
1= This mode of instruction is identified on transcript.
2= Students are limited in the number of credit hours delivered by this mode of instruction that can count toward a degree plan.
3= students must take a special assessment test before enrolling in courses offered by this mode of instruction.
4= 1 and 2 above
5= 2 and 3 above
6= 1,2 and 3 above
9= No on-campus counterpart, other, please write on the Data Input Sheet or attachment, also use if no on-campus counterpart.

R. TELECOMMUNICATION SYSTEMS USED:

List the telecommunication system(s) used to deliver instruction to the student for this course. How was the television program delivered to the site where the student viewed the programs? Note that for home viewing use broadcast television, cable television, etc. even if students viewed the programs after having recorded it at home on a VCR. Although the student viewed the program from a videotape, it was delivered to the home by broadcast tv, etc. Videotape should be listed here only if the student either went to a LRC or library and viewed the program there or was able to borrow the videotapes and take them home.

Note that up to three different telecommunications systems can be reported for each course. List first ("R1") the one that you believed to be the most important source for student viewing. "R2" is the second most important and "R3" the third. It is realized that you may not have data on student viewing patterns at your institution, so please use your best judgment.

CODES:

5	Addressable cable television channel (telecourse programs shown on pay-per-view channel, not viewable by all subscribers)
10	Broadcast television station (PBS and commercial stations)
20	Compact disc
25	Electronic Mail/Conferencing
28	I-Net (institutional cable tv network)
30	ITFS
60	Point-to-point microwave
80	Subscriber cable television system
90	Videodisc
95	Videotape

S. HOURS OF INSTRUCTION BY NON-TELECOMMUNICATION SYSTEM:

This item is the total number of mandatory hours of instruction or contact between an instructor or instructional support staff and students that occurred without the aid of a telecommunications system. Include orientation sessions, discussion sessions, microcomputer and science laboratories, etc. Include time when exams are monitored by either faculty members or support staff.

99=Variable or do not know.

T. OFFICIAL REPORTING ENROLLMENT:

This data is very important, yet it is also some of the most difficult to compare among institutions, because there are many different methods of determining "official enrollment." It would be helpful to attach an explanatory note to the data input sheets the first time your institution participates in the study, indicating that point in the semester when the "official" enrollment is taken. Report this data as the percent of the semester which is passed when "official" enrollment is determined; e.g., the 4th week of a 16 week semester = 25%. It is not necessary to attach an explanation in subsequent semesters unless the definition changes.

U. WHAT PERCENT OF THE INSTRUCTION BY TELECOMMUNICATIONS WAS LIVE?

Sometimes a telecourse is offered in conjunction with live instruction via a telecourse. Enter the percent of the total mandatory instruction delivered over a telecommunications system that was live, i.e. not recorded. Do not include time for any optional activities such as discussion sessions, conferences, etc. These are reported in item "V". Enter "99" if 100%.

V. WHAT FORMS OF TELECOMMUNICATIONS ARE AVAILABLE FOR STUDENT-FACULTY INTERACTION?

This does not include any part of regularly scheduled instructional activities included under "U". Include one-on-one contacts as well as optional group arrangements not included in "U". Do not include telephone or U.S. mail service. Report the most important system if more than one is used.

1. Audio conferencing via telephone bridge
3. Electronic mail
5. Micro computer diskettes

9. Multiple forms

W. LEVEL OF INSTRUCTION FOR THIS COURSE

1=freshman, sophomore
2=junior, senior
3=masters
4=Ph.D.
5=other

SURVEY OF COLLEGE CREDIT TELECOURSES

ITC/AACJC - ANNENBERG/CPB PROJECT

INPUT SHEET A

Enter appropriate numbers from the "Instructions for Completing Data Input Sheets." If the appropriate response for the item is not on the sheet, enter the information on the blank line below the item. A code will be assigned for future use. Updated "Instructions for Completing Data Input Sheets" will be distributed periodically. Right justify all numbers. Copy this sheet and Input Sheet B for use in subsequent semesters.

Contact Ron Brey for additional information or clarification:
Austin Community College, P.O. Box 2285, Austin, TX 78768,
512-495-7571.

INSTITUTIONAL DATA INPUT SHEET "A"

COMPLETE ONE SHEET "A" PER SEMESTER, ATTACH TO THE FRONT OF "B" DATA SHEETS.

Person Completing Form:______________________________Date:______
Telephone Number:___________________________

A. INSTITUTION (# FROM CODE SHEET) A.__ __ __ __
____

B. SEMESTER/QUARTER (# FROM CODE SHEET) B.__

C. YEAR (ENTER LAST TWO DIGITS) C.__ __

D. NUMBER OF CONSORTIA MEMBERSHIPS (ENTER NUMBER) D.__

E. MOST IMPORTANT CONSORTIUM (# FROM CODE SHEET) E.__ __
____

F. HIGHEST DEGREE OFFERED BY INSTITUTION (# FROM CODE SHEET)__________________________________ F.__

Please paper clip this page to the front of all the COURSE DATA INPUT SHEETS "B". Enter the number of attached "B" sheets ____. Return completed forms either to your consortium representative or mail to Ron Brey.

COURSE DATA INPUT SHEET "B":

COMPLETE ONE SHEET FOR EACH COURSE,
ENTER INSTITUTIONAL CODE, ITEM A.__ __ __ __ Year 19___ Semester_______

> NOTE: It is not necessary to complete the entire form if this course was reported previously. Enter the appropriate code numbers for item "G" and only the data for those items which have changed.

G. TELECOURSE NAME (# FROM CODE SHEET) G. __ __ __ __
COURSE:______________________ PRODUCER:__________________

H. PRODUCER (0 IF REPORTING COLLEGE, 1 IF OTHER) H. __

I. USE MATERIALS RECOMMENDED BY PRODUCER? I. __
(# FROM CODE SHEET)___________________________________

J. USE MATERIALS PRODUCED BY YOUR INSTITUTION? J. __
(# FROM CODE SHEET)___________________________________

K. LICENSED FROM (# FROM CODE SHEET, INCLUDE CONSORTIA) K. __ __ __
____

L. NUMBER OF PROGRAMS IN SERIES (ENTER ACTUAL NUMBER) L. __ __ __

M. HOURS OF PROGRAMMING IN SERIES (ENTER ACTUAL NUMBER) M. __ __

N. DEPARTMENT OFFERING COURSE N. __ __ __
(# FROM CODE SHEET)___________________________________

O. NUMBER OF CREDIT HOURS (ENTER ACTUAL NUMBER) O. __ __

P. DOES THE TELECOURSE CARRY THE SAME CREDIT AS P. __
ON-CAMPUS COUNTERPART? (# FROM CODE SHEET)
____

Q. THE SAME ACCEPTANCE AS ON-CAMPUS COUNTERPART? Q. __
(# FROM CODE SHEET)___________________________________

R. TELECOMMUNICATION SYSTEMS USED (# FROM CODE SHEET) R1 __ __
(LIST IN ORDER OF IMPORTANCE, MOST IMPORTANT FIRST) R2 __ __
____ R3 __ __

S. REQUIRED HOURS OF INSTRUCTION BY NON-TELECOMMUNICATIONS SYSTEM (ENTER ACTUAL NUMBER) S. __ __

T. OFFICIAL ENROLLMENT (ENTER ACTUAL NUMBER) T. __ __ __
WHEN DURING SEMESTER IS DATA REPORTED? SEE NOTES____%

U. WHAT PERCENT OF THE MANDATORY INSTRUCTION BY TELECOMMUNICATIONS IS LIVE? (ENTER PERCENT) U. __ __

V. WHAT FORMS OF TELECOMMUNICATIONS ARE AVAILABLE FOR V. __
STUDENT-FACULTY INTERACTION?________________________

W. LEVEL OF INSTRUCTION FOR THIS COURSE (1=FRESH/SOPH. W. __
2=JUNIOR/SEN., 3=MASTERS, 4=PH.D., 5=OTHER)

ERIC Clearinghouse for
Junior Colleges JAN 05 1989